

AGENDA TITLE:

Accept Report from CDM Regarding Sewer Rate Fee Study and Consider a Resolution of the City Council of the City of Sausalito STATING ITS INTENTION TO ESTABLISH A SANITARY SEWER FEE EFFECTIVE TAX YEAR 2009-10

RECOMMENDED MOTION:

Accept the Report from CDM Regarding its Sewer Rate Fee Study and Adopt a Resolution of the City Council of the City of Sausalito STATING ITS INTENTION TO ESTABLISH A SANITARY SEWER FEE EFFECTIVE TAX YEAR 2009-10

INTRODUCTION

As the Council and community are well aware, we are operating our wastewater collection system under an EPA Administrative Order because of significant spills of raw sewage into the Bay in recent years. In an effort to prevent future spills and ensure the health and safety of our residents we must make changes to our aging sewer system and its operations.

As a City, we maintain more than 27 miles of pipes that carry our wastewater to the treatment plant. Some of these pipes are more than 60 years old and in desperate need of repair. In recent months we have carefully developed plans to make necessary upgrades and provide for the upkeep of these systems to comply with the EPA Order and better protect and enhance our Bay and waterfront environment. With our presentation of capital priorities during Council's January 27th meeting we heard of the identified need for more than \$7.6 million in capital improvements. Staff has worked with the City's rate consultant, CDM, since they were retained in June of 2008 to integrate these significant capital needs with a long-term look at increases in other costs that EPA Order compliance requires.

The attached plan prepared jointly by City Staff and CDM is a fiscally responsible plan that will provide for the health and safety of our community, ensure the equitable treatment of our residents, make our sewer system financially self sufficient, and help our City do its share to keep our Bay clean.

Grant Hoag, our Project Manager from CDM will make a presentation summarizing the plan and its recommendations.

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SUMMARY

The resolution presented for consideration with this staff report proposes a rate structure for the City's proposed Sanitary Sewer Fee and schedules a public hearing for the charge with a Special Meeting of the City Council on June 16, 2009. The resolution also establishes the rules for tabulating and maintaining the confidentiality of protests against the fees. Should Council approve the resolution, staff would then cause notice of the hearing to be mailed to each property owner connected to the sewer system and escalate efforts to provide direct public outreach to those rate payers in order to provide information regarding the need for the increase and the details necessary to allow for informed protest. The planned outreach will include one or more public workshops/meetings to inform property owners about the proposed rates.

BACKGROUND

Given that the City's prior rate study was prepared in 2002, Staff recommended and during the course of its regular meeting of June 10, 2008, the City Council authorized Camp Dresser & McKee, Inc. to perform 14 tasks resulting in the preparation of a Sanitary Sewer Fee Study Report recommending sewer rates, assessments, and billing methods after taking into account the substantial local costs that improving our sewer system services and facilities to comply with the EPA Order and projected capital and operation and maintenance costs for the period from July 2009 through June 2014. On March 24, 2009 the City Council heard presentations regarding the draft findings of the Sanitary Sewer Fee Study and reviewed the Rate Analysis to determine an appropriate charge to fund the program.

The Sanitary Sewer Fee Study Report provides the basis upon which the future sewer service charges are calculated, and provides a comprehensive assessment of the City's customer base, rate structure, cost of service, and cost allocation structure. The Report documents the need, amount, and timing of rate increases and the financial impact on both the customers and the City. The report also itemizes the proposed rates for our commercial and residential customers. In doing so, the consultant has relied on the information provided by Staff, and other City consultants, and recognizing that City of Sausalito rate payers are also Sausalito-Marin City Sanitary District ratepayers, has taken into account not only their current rate increase, but the expectation that additional increases are likely in the next few years as the region struggles to make some overdue improvements in a very favorable debt and construction cost economy.

The Council also recognized that the same factors that make the timing of these improvements favorable in one sense can create hardships for some of members of the community. At Council direction, Staff has directed the rate consultant to make provisions for some form of "lifeline" rate for qualifying customers to minimize the adverse effects to those who cannot afford to pay while not significantly increasing the burden on other ratepayers. The proposed funding for such a program could come from (a) the General Fund, (b) donations from sewer customers, or (c) potentially from penalties or interest collected from late payments. The funding cannot be subsidized by other sewer rate payers without approval as a tax.

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The City Council directed staff to return to the City Council at the April 14, 2009, City Council meeting with an authorizing resolution stating the City's intention to implement a Sanitary Sewer Fee effective tax year 2009-10 through 2014-15.

DISCUSSION

Pursuant to Section 6 of Article XIIID of the California Constitution (a provision of Proposition 218), the City must give notice by mail to each property owner of record as of the last equalized assessment roll. A copy of the proposed Notice language is attached. Property owners have the right to submit written protests against the proposed charge and may do so by mail or in person to the Deputy City Clerk not later than the conclusion of the Public Hearing. At the Public Hearing, the City will consider all protests against the proposed charge. If written protests against the charge are presented by owners of a majority of the affected parcels, the City Council may not impose the revised charges.

The sample Notice included with the Staff Report, was jointly prepared by City Staff and Grant Hoag, CDM. The draft notice was then reviewed by City Staff and outside Counsel. The final Notice will be formatted for ease of mailing and ease of display of the information. In addition City Staff will establish links and other information on the City web page, where City residents may easily find background and other information regarding the Sanitary Sewer system and the proposed charge. Should the City Council approve the resolution, the web page site will be activated once the Notice has been mailed, and additional efforts for dissemination of facts to the public will be conducted. As a matter of policy, the City will give notice of the time and place of the Public Hearing to all property owners and rate payers within the City by publishing this Resolution once in the local newspapers for two consecutive weeks not less than 10 days before the date of the Public Hearing, and by posting a copy of this Resolution on the official bulletin board customarily used by the City Council for the posting of notices.

ISSUES

As indicated to Council during its March 24, 2009 regular meeting, California Code of Regulations, GUIDELINES FOR IMPLEMENTATION OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT, ARTICLE 18, STATUTORY EXEMPTIONS, § 15273. Rates, Tolls, Fares, and Charges, provides that:

- "(a) CEQA does not apply to the establishment, modification, structuring, restructuring, or approval of rates, tolls, fares, and other charges by public agencies which the public agency finds are for the purpose of:
 - (1) Meeting operating expenses, including employee wage rates and fringe benefits,
 - (2) Purchasing or leasing supplies, equipment, or materials,
 - (3) Meeting financial reserve needs and requirements,

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- (4) Obtaining funds for capital projects, necessary to maintain service within existing service areas, or
- (5) Obtaining funds necessary to maintain such intra-city transfers as are authorized by city charter.

(c) The public agency shall incorporate written findings in the record of any proceeding in which an exemption under this section is claimed setting forth with specificity the basis for the claim of exemption."

FISCAL IMPACT

Approval of this action does not establish rates however, should the City Council implement the rate structure shown in the Notice following the Proposition 218 hearing, the revenue received will match the requirement for fiscal year 2009-10 for the Sewer Fund Budget.

STAFF RECOMMENDATIONS

Adopt a Resolution of the City Council of the City of Sausalito as presented to schedule the public hearing and propose the rate structure, and approve clarification to the Report to allow the funds to be used for any lawful purpose of the sewer utility.

ATTACHMENTS

- Resolution of the City Council of the City of Sausalito Stating its Intention to Establish a Sanitary Sewer Fee Effective Tax Year 2009-2010
 - Exhibit A to Resolution-Rate Structure (i)
 - Exhibit B to Resolution Rules for Tabulating Protests
- В. Proposition 218 Notice (sample), entitled "Notice of Public Hearing, Proposed Sanitary Sewer Fee"
- C. Sanitary Sewer Fee Study – Draft Report, CDM, April 8, 2009

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PREPARED BY: Director of Public Works
Jonathon Goldman
REVIEWED BY: Interim Finance Director
Charles Francis
SUBMITTED BY:
Adam W. Politzer

City Manager

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RESOLUTION No.

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SAUSALITO STATING ITS INTENTION TO IMPOSE A SANITARY SEWER FEE EFFECTIVE TAX YEAR 2009-10

WHEREAS, the quality of our local wastewater system is fundamentally important to our community's health and safety, and

WHEREAS, in recent years, there have been several hazardous spills of raw sewage into the Bay which present a real environmental concern, and

WHEREAS, the City's sewer infrastructure is old, and portions of the 27 miles of pipes in our City have deteriorated, and

WHEREAS, now, like surrounding jurisdictions, the City of Sausalito must make significant capital and infrastructure improvements to our aging sewer system in order to ensure the health and safety of our community, and

WHEREAS, State or Federal funds are being pursued, but will not be sufficient to meet our urgent needs, and

WHEREAS, the City is proposing an equitable rate system that ensures all rate payers share equally in cost of necessary upgrades and their maintenance, and

WHEREAS, the City Council desires to impose a new Sanitary Sewer Fee to fund these necessary expenses.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Sausalito that:

- 1. The foregoing recitals are all true and correct.
- 2. The City Council proposes the imposition of the Sanitary Sewer Fee at the annual rate described in Exhibit "A" to this Resolution, which is incorporated herein by reference. It is proposed that the Sanitary Sewer Fee be collected annually on the property tax roll.
- 3. On June 16, 2009, at 7:00 PM or as soon thereafter as may be practicable in the City Council Chambers located at 420 Litho Street, Sausalito, CA, the City Council will hold a public hearing pursuant to Section 6(a) of Article XIIID of the California Constitution with respect to the proposed Fee. At this hearing, all interested persons will be permitted to present oral and written testimony with respect to the proposed Fee.
- 4. The City Council further directs staff to give notice of the hearing in the manner required by law.

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PASSED AND ADOPTED at a special meeting of the City Council of the City of Sausalito on the 14th day of April, 2009 by the following vote:

AYES: Councilmembers:
NOES: Councilmembers:
ABSTAIN: Councilmembers:
ABSENT: Councilmembers:

MAYOR OF THE CITY OF SAUSALITO

ATTEST:

DEPUTY CITY CLERK

5. The City will accept and tabulate protests against the proposed Fee pursuant to the procedures set forth in Exhibit "B" to this Resolution, which is incorporated herein by

reference.

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EXHIBIT "A" PROPOSED SANITARY SEWER FEE SCHEDULE

	No. of Account	Current	Projected				
Description	S	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2011-12	FY 2012-13
Change in Rate-ba	ased Reven	ues	45%	0%	8%	8%	8%
Rates for Resident	tial Dischai	rgers (\$/year-	dwelling unit	t, with change	es for equity)		
Single-family							
Dwelling	1,258	\$215	\$360	\$422	\$422	\$456	\$492
Single Family							
Attached	832	\$167	\$260	\$260	\$280	\$303	\$327
Multi-family							
Residential	1,960	\$167	\$193	\$193	\$209	\$225	\$243
Alt Rates for Non-	-Residentia	l Discharger					
(Allocated Capaci	ty based on	Historical F	ive Year Max	ximum Water	r Use)		
Commercial							
(\$/yr-parcel)	207	\$167	\$242	\$242	\$262	\$282	\$305
Unit Rate							
(\$/Ccf-annual							
water use,							
Note a)		\$2.03	\$1.94	\$1.94	\$2.10	\$2.27	\$2.45

a. The Unit Rate (\$/Ccf) currently is based on the excess use, but would be replaced under the projected rate with a fee based on their historical maximum water demands from the most recent five years.

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EXHIBIT "B" GUIDELINES FOR THE SUBMISSION AND TABULATION OF PROTESTS

Submittal of Protests

- 1. Any property owner may submit a written protest to the City Clerk, either by delivery to the office of the City Clerk at 420 Litho Street, Sausalito, CA 94965 or by submitting the protest at the public hearing. Protests must be received by the end of the public hearing. No postmarks will be accepted.
- 2. Each protest must identify the affected property (by assessor's parcel number or street address) and include the signature of the record property owner. Email protests cannot be accepted. Although oral comments at the public hearing will not qualify as a formal protest unless accompanied by a written protest, the City Council welcomes input from the community during the public hearing on the proposed charges.
- 3. If a parcel served by the City is owned by more than a single record owner, each owner may submit a protest, but only one protest will be counted per parcel and any one protest submitted in accordance with these rules will be sufficient to count as a protest for that property.
- 4. In order to be valid a protest must bear the original signature of the record owner with respect to the property identified on the protest and may not have been altered. Protests not bearing the original signature of a record owner shall not be counted.
- 5. Any person who submits a protest may withdraw it by submitting to the City Clerk a writing request that the protest be withdrawn. The withdrawal of a protest shall contain sufficient information to identify the affected parcel and the name of the record owner or record customer who submitted both the protest and the request that it be withdrawn.
- 6. A charge protest proceeding is not an election.
- 7. To ensure transparency and accountability in the charge protest tabulation, protests shall constitute disclosable public records from and after the time they are received, but shall be maintained in confidence from their receipt until that time.

Tabulation of Protests

- 1. The City Clerk shall determine the validity of all protests. The City Clerk shall not accept as valid any protest if the City Clerk determines that any of the following conditions exist:
 - a. The protest does not identify a property served by the City.
 - b. The protest does not bear an original signature of a record owner of the parcel identified on the protest.
 - c. The protest does not state its opposition to the proposed charges.
 - d. The protest was not received by the City Clerk before the close of the public hearing on the proposed charges.
 - e. A request to withdraw the protest is received prior to the close of the public hearing on the proposed charges.
 - f. The protest was altered by one other than the record owner who signed it.

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- 2. The City Clerk's decision that a protest is not valid or does not apply to a specific charge shall constitute a final action of the City and shall not be subject to any internal appeal.
- 3. A majority protest exists if written protests are timely submitted and not withdrawn by the record owners of a majority of the properties subject to the proposed charge.
- 4. At the conclusion of the public hearing, the City Clerk shall complete the tabulation of all protests received, including those received during the public hearing and shall report the results of the tabulation to the City Council upon completion. If review of the protests received demonstrates that the number received is manifestly less than one-half of the parcels served by the City with respect to the charge which is the subject of the protest, then the Clerk may advise the City Council of the absence of a majority protest without determining the validity of all protests.
- 5. If at the conclusion of the public hearing the city Clerk determines that she will require additional time to tabulate the protests, she shall so advise the city Council, which may adjourn the meeting to allow the tabulation to be completed on another day or days. If so, the City Council shall declare the time and place of tabulation, which shall be conducted in a place where interested members of the public may observe the tabulation, and the City Council shall declare the time at which the meeting shall be resumed to receive and act on the report of the City Clerk.

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SAMPLE NOTICE OF PUBLIC HEARING PROPOSED INCREASE IN SEWER SERVICE CHARGES June 16, 2009 at 7:00 p.m.

Council Chambers, City Hall 420 Litho Street, Sausalito

Questions or Comments? Please Contact Us!

CALL: _____ between ____ AM and ___ PM, Monday through Friday REVIEW the Wastewater Rate Study Report available at the City WRITE the City Council at 420 Litho Street, 94965-1933 PARTICIPATE in the Public Hearing

Annual Sewer Service Charges are collected on your Marin County Property Tax Bill

PROPOSED ANNUAL SEWER SERVICE CHARGES BEGINNING JULY 2009 PROPOSED SANITARY SEWER FEE SCHEDULE

,	No. of Account	Current	Projected				
Description	S	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2011-12	FY 2012-13
Change in Rate-base	ed Revenues	S	45%	0%	8%	8%	8%
Rates for Residentia	l Discharge	rs (\$/year-dwe	lling unit, with	n changes for e	equity)		
Single-family							
Dwelling	1,258	\$215	\$360	\$422	\$422	\$456	\$492
Single Family							
Attached	832	\$167	\$260	\$260	\$280	\$303	\$327
Multi-family							
Residential	1,960	\$167	\$193	\$193	\$209	\$225	\$243
Alt Rates for Non-R	esidential D	ischarger					
(Allocated Capacity	based on H	istorical Five	Year Maximur	n Water Use)			
Commercial							
(\$/yr-parcel)	207	\$167	\$242	\$242	\$262	\$282	\$305
Unit Rate							
(\$/Ccf-annual							
water use, Note							
a.		\$2.03	\$1.94	\$1.94	\$2.10	\$2.27	\$2.45

a. The Unit Rate (\$/Ccf) currently is based on the excess use, but would be replaced under the projected rate with a fee based on their historical maximum water demands from the most recent five years.

TO PROTEST

At the Public Hearing, the Council will receive and consider public input and any written protest. Such written protest may be delivered to 420 Litho Street any time prior to the close of its public hearing on June 16, 2009. A protest must identify the property by parcel number or address and signed by the record owner of the property for which the protest is submitted. One protest per parcel shall be counted. If written protests against the proposed increase in sewer service charges are presented by a majority of affected owners, the Council will not approve the proposed increases. A complete list of the rules for tabulation protests is available at www.ci.sausalito.ca.us.

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111 Academy Suite 150 Irvine, CA 92617 tel: 949-752-5452 fax: 949-725-3790

April 8, 2009

Mr. Jonathon Goldman Director of Public Works City of Sausalito 420 Lito Street Sausalito, CA 94965

Subject: Sanitary Sewer Fee Study - Draft Report

Dear Mr. Goldman:

In accordance with our Service Contract for a Wastewater Rate Study dated April 21, 2008, we are pleased to submit this draft report. The results of this study are intended to provide your City with financial planning recommendations needed for funding your operations while maintaining the City's financial health on a sustainable basis.

The recommendations are:

- To achieve cost of service equity, the single-family dwelling charges must be increased by 25 percent, on top of any revenue requirement-based changes. In contrast, multifamily fees must be reduced slightly, and non-residential revenues should be reduced by 9 percent.
- The projected annual capital project expenditures are approximately \$1 million per year. It is anticipated that they will deplete the sewer fund within three years, so we recommend that City pursue State Revolving Fund (SRF) loans totaling \$3.4 million through fiscal year (FY) 2013-14.
- In addition to increases in capital program, operations and maintenance costs are projected to climb from the current \$881,415 to \$1.6 million per year by FY 2013-14. To fund these projected costs, the FY 2009-10 sewer fee revenues should be increased by 45 percent.
- In order to comply with loan requirements and maintain adequate cash reserves, we recommend that the City increase sewer revenues by 8 percent annually starting in FY 2011-12, and continuing for three years.

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Mr. Jonathon Goldman April 8, 2009 Page 2

■ The effect of the combined revenue and equity adjustments on the 1,250 single-family dwelling parcel bills is to increase the existing bill of \$215 per year to \$360, effective July 1, 2009. In contrast, the 1,950 multi-family parcels will have relatively minor increases in bills from \$167 to \$193 per dwelling unit per year.

We have enjoyed working with your staff members and City management on this interesting study, and are grateful for your support and participation. We look forward to presenting these findings and recommendation to your City Council.

Please contact us if you have any questions, or need additional information.

Very truly yours,

Grant E. Hoag, P.E.

Project Manager

Camp, Dresser & McKee

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Glossary

APN Assessor's Parcel Number CCTV Close Circuit Television

CIP Capital Improvement Program

City City of Sausalito

COP Certificate of Participation

DU Dwelling Unit

DWR Department of Water Resources

EQPT Equipment
EXP Expense
FY Fiscal Year
GPD (gpd) Gallon per Day

HCF Hundred Cubic Feet (748.1 gallons)

I/I Inflow and Infiltration

L/T Long Term Misc Miscellaneous

NPDES National Pollution Discharge Elimination System

O&M Operations and Maintenance OCLD Original Cost less Depreciation

OP Operating

R&R Rehabilitation and Replacement

RESID Residential

SMCSD Sausalito-Marin City Sanitary District

SRF State Revolving fund

SVC Service

SWRCB State Water Resources Control Board

UNK Unknown

USEPA United States Environmental Protection Agency

WDR Waste Discharge Requirements
WEF Water Environment Federation
WWTP Wastewater Treatment Plant

YR (yr) Year

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Executive Summary

This summary describes the results of a sanitary sewer fee study for the City of Sausalito. The overall goal of the study is to identify equitable sewer charges for the 3,000 accounts in support of sustainable utility services. The last sewer revenue plan study was prepared in 2003, with rates enacted through 2008.

The City of Sausalito owns and operates sewers conveying wastewater to the Sausalito-Marin City Sanitary District (SMCSD) for treatment and discharge to bay waters. The City sewers are operating under an USEPA Administrative Order due to recent spills. The management of the sewers is regulated by State Water Discharge Requirements mandating pipeline cleaning and repair. A significant expansion in the historical level of sewer maintenance and repair is planned. The updated fees must be compliant with state law, and must be sufficient to fund programs mandated by these new state regulations and with USEPA orders.

Property owners citywide are billed on their parcel tax bills for the sewer system costs. The charges from SMCSD also appear on these bills, but as a separate line item. The current City fees to single-family dwelling parcels of \$215 per year have been unchanged for two years. In order to place a fee in the FY 2009-10 property tax rolls, the City must enact updated rates by mid-June for submission to the Assessor's office by mid-July.

ES.1 Customer Cost of Service Equity and Billing Practice Findings

California Article XIII C & D (Proposition 218) requires that sewer utility rates be fair and equitable, and that the rate-based-revenues from each customer class be proportional to the City's cost of service to that class, and that the customers be informed of any changes in their rates. Based on our analysis, the current City practice of fixed residential charges is consistent with state and nationwide standards, and can remain unchanged. Moreover, the practice of billing the charges on the annual County Assessor's Office tax rolls is also consistent with commonly accepted procedures, is administratively convenient, and should be continued.

However, the single-family dwelling parcel charges are currently lower than is equitable, in comparison with the other classes. To achieve cost of service equity, these single-family dwelling charges must be increased by 25 percent, on top of any revenue requirement-based changes. In contrast, multi-family fees must be reduced slightly, and non-residential revenues should be reduced by 9 percent.

ES.2 Financial Plan Findings

The sewer rate study revenue requirement findings were discussed with the City's Sustainability Commission on February 5, 2009. The conclusions included:

■ The Department of Public Works has recommended that the O&M expenditures be increased steadily from \$880,000 this year (FY 2008-09) to \$1.6 million per year in five years (FY 2013-14). In addition, capital asset purchases of \$445,000 are Meeting Date: 4/14/09

needed immediately, and project expenditures should be increased from the current \$444,000 to \$1.1 million per year to reduce the backlog of critical facility rehabilitation projects. Annual capital project expenditures of approximately \$1 million per year will deplete the sewer fund within three years, so State Revolving Fund (SRF) loans totaling \$3.4 million through FY 2013-14 are recommended.

- Sewer system operating revenues from rates and charges must be sufficient to cover all operating expenses excluding extraordinary rolling stock purchases. In FY 2009-10, the budgeted level of O&M cost requires that sewer fee revenues be increased by 45 percent. As such, we recommend that the City increase sewer system revenues by 45 percent effective July 1, 2009.
- In order to comply with loan requirements and maintain adequate cash reserves, we recommend that the City increase the sewer revenues by 8 percent annually starting in FY 2011-12 and continuing for three years. The sources and application of funds, and resulting cash reserves balances, are illustrated in Figure ES-1 below.

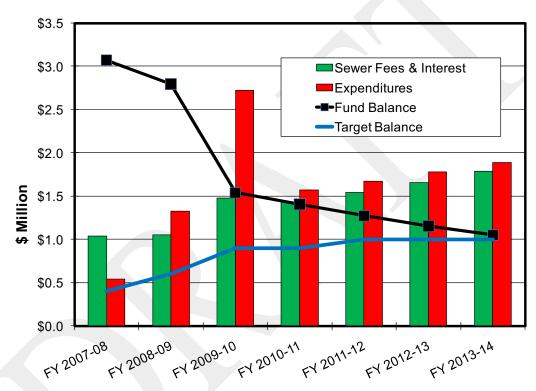


Figure ES-1 Projected Revenues and Expenditures

■ The effect on single-family dwelling resident sewer bills of the combined revenue requirements and cost of service adjustments is to increase the existing bill of \$215 to \$492 within five years, as shown on the following pages in Table ES-1. Multifamily dwelling rates will increase from \$167 to \$193 next year, and single-family dwelling attached (duplex) parcels will increase from \$167 per year to \$260. We ltem #: A

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have established a phase-in of single-family parcel charges, and recommend that the \$215 bill be increased to \$360 on July 1, 2009 and to \$422 on July 1, 2010.

- Two alternatives to the proposed increase in sewer service revenues were evaluated. Specifically:
 - If the historical 9 percent rate increases were continued, the City would have inadequate revenues (net revenues for debt service) to qualify for the proposed SRF loan, and the sewer enterprise reserve funds would be depleted by 2012. This alternative is not viable.
 - The possibility of spreading the 45 percent increase in revenues over two years was considered. This requires a 22 percent increase for each of the next two years. However, in the first year the net operating revenues would be negative, and in violation of State revenue plan guidelines and the WDRs. Also, there would be insufficient revenues to support a SRF loan until FY 2012-13, delaying critical capital project expenditures. This alternative is not viable. However, we do propose that the single-family parcel charges be phased-in over two years in order to avoid rate shock, so that in FY 2009-10 the residential bills are increased to \$360 rather than \$391 per year.

ES.3 Commercial Account Sewer Service Rate Structure Findings

The current billing method for commercial wastewater customers consists of a fixed annual customer service fee of \$167 per parcel and a variable rate of \$2.03 per hundred cubic feet (Ccf) of prior year water demand. We propose that the charges be updated to reflect the utility system capacity allocated to each of the 207 commercial customers, based on their maximum water demands of the most recent five years, rather than the current allocation based on the prior year's actual water use.

ES.4 Proposed Rates and Alternative Commercial Charge

Based on the draft assumptions, findings and conclusions, the proposed rates for the next five years are shown in Table ES-1 on the following page. The proposed rates use the refined non-residential rate structure using historical maximum water usage values for each account to determine the allocated capacity charges.

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Table ES-1
Proposed Rates

Description	No. of Accounts	Current FY 2008-09	Projected FY 2009-10	Extra an	et 2011.12	47201.22	K12012.13
Change in Rate-based Revenues			45%	0%	8%	8%	8%
Rates for Residential Dischargers (\$/year-de	welling unit, with	changes for	equity)				
Single-family Dwelling	1,258	\$215	\$360	\$422	\$422	\$456	\$492
Single Family Attached	832	\$167	\$260	\$260	\$280	\$303	\$327
Multi-family Residential	1,960	\$167	\$193	\$193	\$209	\$225	\$243
Alt Rates for Non-Residential Discharger (A	llocated Capaci	ty based on H	istorical Five	Year Max	imum Wat	ter Use)	
Commercial (\$/yr-parcel)	207	\$167	\$242	\$242	\$262	\$282	\$305
Unit Rate (\$/Ccf-annual water use, a)		\$2.03	\$1.94	\$1.94	\$2.10	\$2.27	\$2.45

ES.5 Remaining Steps for Sewer Service Fee Enactment

Parcel can be charged for sewer services only after new fees are enacted by City Council. The enactment of the new multi-year rate structure described above would fulfill this requirement, and City staff and management has prepared a schedule of activities for the process culminating in the enactment of sewer service charges. The schedule milestones and preliminary dates are:

- 1. The Council must review the proposed rate structure and authorize City Staff to mail a public rate hearing notification of proposed fees to all sewer customers, in compliance with state law (aka Proposition 218), and must make available for the customers their proposed bills;
- 2. The Council must hold a public hearing on the proposed fees at least 45 days after the notification and, absent significant protest, conduct the first reading of proposed rates;
- 3. The Council must enact the proposed rates at a following City Council meeting; and
- 4. The County Assessor's Office must receive a list of sewer service charges to individual parcels, based on the rate structure approved by the City Council.

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Chapter 1 Introduction

The City of Sausalito owns and operates sewers that convey wastewater to the Sausalito Marine-City Sanitary District (SMCSD) for treatment and discharge to bay waters. The City sewers are operating under an USEPA Administrative Order, due to recent regional and local spills. The City's management of its sewers is regulated by State Water Discharge Requirements (WDRs) mandating pipeline cleaning and repair.

1.1 Rate Study Objectives

In developing fees for the City, five municipal utility financial planning objectives are the basis of the proposed fees. The five objectives are:

- Revenue Sufficiency. Rate-based revenues effective in funding the costs of services.
- **Practical.** Easy and feasible for the City to implement and administer.
- **Equitable.** Fair in apportioning the costs of service among the different customer classes.
- Acceptable to the Community. Understandable and designed to foster public acceptance.
- Compliant with Applicable Regulations. Meets the calculation requirements of the state, the Orders and Decrees from regulatory agencies, and all applicable City and State laws.

The first objective requires that user charges be designed such that the revenues will produce the cash required to fund the utility by including all costs required to provide sustainable services, to meeting new debt service requirements and to maintain adequate cash reserves. The second objective requires that the new rates do not create an administrative burden for the City staff to calculate. The third objective requires that the user charges result in each customer paying that portion of the revenue requirements (the City's costs) for which they are responsible. The fourth objective requires that the utility customers can easily understand the user charges. The fifth objective requires that applicable laws, regulations, orders and court case findings be correctly applied to the proposed user charge structure.

1.2 Development of Wastewater Utility Rates

In order to calculate appropriate rate-based revenues to support the utility, a rate setting process was undertaken. The rate setting process used in this study is illustrated in Figure 1-1, and described below.

The six steps comprising this process are:

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- 1. Calculate annual revenue requirements. To recover annual rate-based revenue requirements, the costs associated with the system must be projected. The cash flow-based revenue requirements include O&M expenses, non-operating expenditures, capital costs funded with rate-based revenue proceeds and other non-operating revenues, development of reserves for facility replacement projects, and debt service on existing and future loans to fund capital improvements.
- Develop user characteristics. In order to recover costs from users commensurate with their wastewater discharges and system loads, the type of system customers and their estimated sewage discharges must be developed.
- 3. Allocate costs to functional cost categories. In order to recover costs equitably from the various customer classes in compliance with state law, wastewater utility costs must be allocated to functional cost categories. These functional categories are based on the user discharge characteristics and include pipeline and treatment plant capacities to accept sewage flows and strengths, and customer service accounts.
- 4. **Estimate unit costs of service**. The costs allocated to the various functional cost categories are divided by the appropriate units in order to calculate the unit costs of service.
- Annual Revenue
 Requirements

 User
 Characteristics

 Functional Cost
 Categories

 Unit Costs of
 Service

 Rate Alternatives

 Recommend
 Rates

Figure 1
Rate Setting Process

- 5. Identify wastewater rate alternatives. The unit costs of service and the user characteristics are combined to develop wastewater service rate structure alternatives based on billable characteristics of customer types and sewage strengths, sewage flows and allocated capacities based on water usage factors, and customer service.
- 6. **Establish recommended rates**. Based on professional judgment, discussions with City staff, and presentations to the City Council, the fee structure is updated and schedule of future rates enacted.

Each of these steps is described in the following chapters.

1.3 Study Assumptions

The assumptions used for development of this study resulted from discussions with City staff, application of current financial indices, future replacement project funding #: A

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needs, and general wastewater utility financial standards. The financial projections used for development of the rate model rely on these assumptions, which are tabulated in several tables. Inflationary escalations, interest earnings and State Revolving Fund loan terms are provided in Table 1-1.

Table 1-1 Assumptions

Description	Value
Annual Inflation in Expenses	4.0%
Reserves Interest Earnings	3.0%
SRF Loan Terms	
Debt Term (years)	25
Cost of Issuance	0%
Bond Reserve (years of debt)	0
Municipal bond Debt Rate	3%
Bond Market Project Financing (not	used)
Debt Term (years)	30
Cost of Issuance	2%
Bond Reserve (years of debt)	1
Municipal bond Debt Rate	5%



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Chapter 2 Revenue Requirements

This chapter presents the development of the annual revenue requirements to be recovered from updated wastewater service charges. Each year the wastewater rate-based revenues will equal the net uses of funds plus changes to the total cash reserves. These uses of funds equal the O&M and, non-operating expenses capital costs and debt service payments, less revenues from interest income, tax proceeds, and reserve drawdown.

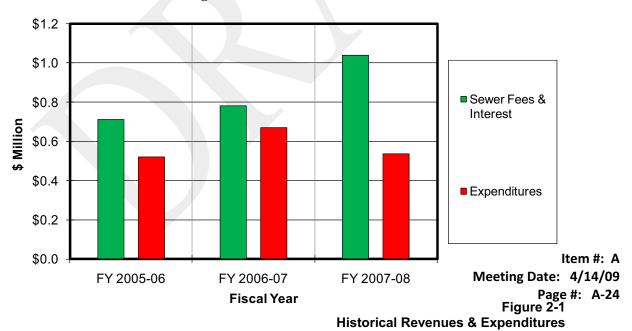
The projected O&M, fund transfers, and capital project cost assumptions used in the development of the annual revenue requirements are presented in this chapter. The figures providing project and O&M expenditures, project financing, and cash flow statements for the wastewater utility are provided throughout the chapter, while the tables are provided at the end.

2.1 Financial Assumptions

The assumptions used for development of the rate model resulted from discussions with City staff, application of current financial indices, and general wastewater utility financial standards. The financial calculations used for development of the rate model rely on these assumptions. For example, general inflationary escalations on costs are set at 4 percent per year, including salaries, benefit and other O&M expenses. Moreover, interest earnings on reserve funds are set at 3 percent.

2.2 Development of Revenue Requirements

The annual revenue requirements are projected for a five year study period of FY 2009-10 through FY 2013-14. The assumptions used to project capital and O&M expenses, debt service payments, and the funding levels for the reserves, are summarized in the following tables. These cashflows result in the rate-based





revenues needed for each year of the projection period.

Table 2-1, provided at the end of this chapter, lists the historical cashflow for FY 2005-06 through the current budget year FY 2008-09, and the proposed operating budget for FY 2009-10. It is divided into operating and non-operating revenues and expenses. Figure 2-1, on the previous page shows the historical revenues and expenditures. Rate-based revenues were \$958,444 in FY 2008-09. Interest income has dropped with declining interest rates to an approximate budgeted level of \$90,000. Table 2-2 shows the current and projected O&M expenditures. As shown, the current year O&M expenditures of \$881,415 are projected to increase to \$1.6 million by FY 2013-14. Figures 2-2 and 2-3, on the following pages show the projected expenditures in FY 2010-11 and in FY 2013-14.

2.3 Rate-Based Revenues Validation

In order to develop accurate rate-based revenues, it is critical to validate the customer billing characteristics. This is done by confirming that the current unit rates time the billable customer account and discharge levels equals the budgeted revenues.

Table 2-3 details the current customer accounts by class. The rate-based revenues total \$958,444 for FY 2008-09. As shown, this is based on 1,369 single-family dwellings each paying \$215 per year and 1,398 single-family attached and multifamily dwelling units each paying \$167 per year. The total residential revenues are \$761,267 annually. There are 207 commercial/industrial water parcels paying a class total of \$197,177 per year. The billing rates for these parcels include a fixed service charge of \$167 per parcel plus a variable charge based on the excess metered water use at each parcel.

Property owners citywide are billed on their parcel tax bills for the sewer system costs. The charges from SMCSD also appear on these bills, but as a separate line item. The current City fee of \$215 per year for single-family dwelling parcels has been unchanged for two years.

2.4 Capital Improvement Programs

In this section, the annual capital-related expenditures and the source of funding for these projects are identified. A major element of the City's proposed expenditures is the Capital Improvement Program (CIP). Current capital expenditures are listed in Table 2-4, along with project funding from a series of SRF loans.

Projects identified this year total \$505,000, but actual expenditures are projected to be less at \$444,000. The identified costs in the Capital Improvement Program (CIP) are \$7.6 million, including \$4.4 million in expenditures that will remain unfunded by the end of FY 2013-14. For financial planning purposes, we have assumed uniform annual expenditures of only \$940,000, based on the expected capacity of the City staff for contract management and project inspection. The actual timing and duration of projects may fluctuate.

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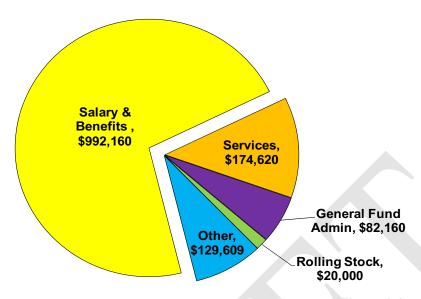


Figure 2-2 FY 2010-11 Sewer O&M Expenditures

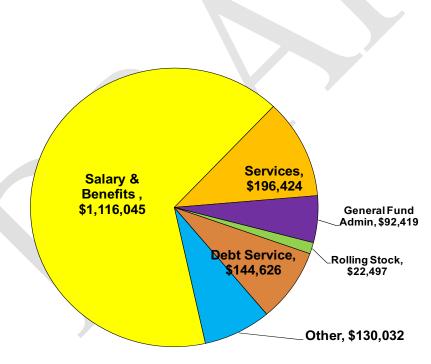


Figure 2-3 FY 2013-14 Sewer O&M Expenditures

FY 2013-14 Sewer O&M Expenditures Item #: A

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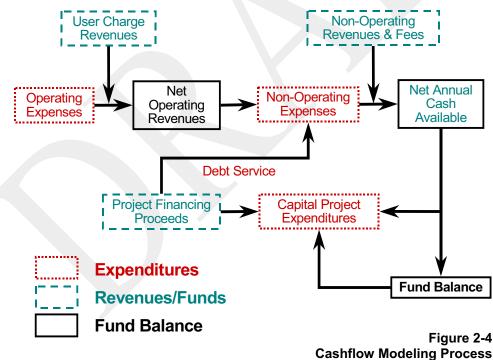


A State Revolving Fund (SRF) loan of \$3.4 million starting in FY 2010-11 has been incorporated into the analysis, resulting in annual debt service obligations of \$196,000 by the end of FY 2011-12. Normal capital financing policy consistent with SRF loan policies typically requires that the City cash finance on a pay-as-you-go basis 20 percent of the annual capital expenditures. As such, annual pay-as-you-go cash funding of projects is \$188,000 per year.

2.5 Projected Revenue Requirements

The sewer utility is a self-supporting enterprise, operating in perpetuity. The financial plan for the utility is based on funding and maintaining a reliable delivery of wastewater services that meets all regulatory requirements. This section documents the annual rate-based revenues required for the operations, capital-related costs and other expenses. California's publicly owned municipal utilities are regulated through their point discharge permits by the State Water Resources Control Board (SWRCB). These regulations require that all utilities sustain operating expenses (excluding depreciation) from rate-based revenues before the inclusion interest earnings and other miscellaneous revenues. Operating costs, unlike capital expenses, cannot be supported by bond or grant proceeds.

This analysis is illustrated in the flowchart provided in Figure 2-4. The flowchart illustrates the modeling process used to combine the annual revenues, expenditures and fund balances in a multi-year cash flow evaluation. As shown, each year should result in net cash available for projects or for the utility's reserves



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These annual expenditures and current revenues are combined to develop an annualized cashflow representing the City's sources and uses of funds. O&M expenditures have increased steadily from \$881,415 this year (FY 2008-09) to \$1.6 million per year in five years (FY 2013-14). In addition, capital asset purchases of \$445,000 are needed immediately, and project expenditures should be increased from the current \$444,000 to \$1.1 million per year to reduce the backlog of critical facility rehabilitation projects.

2.6 Recommended Rate-Based Revenue Adjustments

This section develops the annual rate-based revenue requirements needed to operate the utility on a sustainable financial basis.

We have developed three alternative financial plan proformas (tables). Each proforma projects the sources and applications of funds to identify the net revenues available for cash reserves, debt service coverage ratios, and annual changes in rates. All proformas use the same projected operating expenditures, and a five year \$4.7 million CIP. However, they differ in the timing and level of rate increases. All proformas are based on the City's receipt of a \$3.4 million State Revolving Fund (SRF) loan, which has lower interest rates and issuance costs than revenue bonds, and requires a low 1.10 coverage ratio. Moreover, with the Federal Stimulus Package infrastructure funds flowing through SRF programs nationwide, it is likely that SRF loans will become even more attractive in the next year.

An essential financial requirement for any utility is that net operating revenues are positive. In our analysis of sources and applications of funds to determine net operating revenues, we have excluded non-cash depreciation and a one-time operating expense of \$400,000 for utility equipment and machinery. Based on these adjustments, a rate-based revenue increase of 45 percent is required effective July 1, 2009 for FY 2009-10.

The base case proforma, as shown in Table 2-5, does not require a rate increase in the year following the 45 percent adjustment, but subsequently requires additional rate increases of 8 percent in each fiscal years ending 2012, 2013 and 2014. Table 2-6 presents a proforma with more uniform rate increases: In the first two fiscal years ending in 2010 and 2011 we have used two 23 percent increases. The benefit of spreading out the 45 percent rate increase is the reduction in rate shock with a single rate increase, but disadvantage is that in neither year is positive net operating revenues achieved. Without positive net revenues, the sewer enterprise will not be able to receive a SRF loan or issue a revenue bond, so this alternative is not viable. Moreover, based on the cost of service equity findings developed in the following section, significant adjustments in the rate structure is required for compliance with Proposition 218 equity. In the following sections we identify the option of spreading out the increases to single-family parcels while maintaining adequate loan coverage ratios.

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The final proforma alternative is shown in Table 2-7. This non-viable alternative demonstrates the impact of continuing the rate increases of the past five years. As shown, net operating revenues are negative in all projected years and all cash reserves are depleted in 2013. These cash flows support neither operations nor capital requirements.

In conclusion, the City needs to increase utility charges by 69 percent over the next five years to continue reliable operations, comply with debt service covenants, fund future rehabilitation projects to maintain system integrity and provide for full regulatory compliance. Figure 2-5 shows the projected revenues, expenditures and reserves resulting from the increase in revenues for next five years.

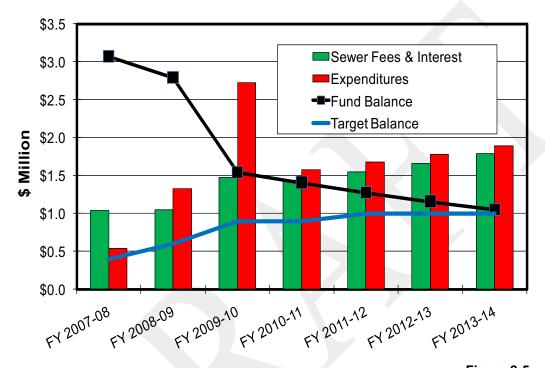


Figure 2-5 **Projected Revenues & Expenditures**

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Historical and Budgeted Sewer Enterprise Fund 110 Revenues and Expenditures Table 2-1

		Historical (c)		Current Budget	Proposed Budget (f)
Description	FY 2005-06	FY 2006-07	FY 2007-08	FY 2008-09	FY 2009-10
Operating Revenues					
Sewer Service Fees	\$706,819	\$755,545	\$951,956	\$958,444	
Miscellaneous Revenue	\$150	\$269	\$67,885	\$1,000	
Total Operating Revenues	\$706,969	\$755,814	\$1,019,841	\$959,444	
Sewer Utility Operating Expenses					
Salary and Benefits (a)	\$350,323	\$394,055	\$370,916	\$426,407	\$954,000
Services Including Professional Svcs	\$97,940	\$90,348	\$81,910	\$252,903	\$167,904
Repairs, Maintenance & Expenses (b)	\$70,939	\$186,599	\$84,617	\$123,105	\$111,152
Total Operating Expenses	\$519,202	\$671,002	\$537,443	\$802,415	\$1,233,056
Net Operating Revenue	187,767	84,812	482,398	157,029	
Non-Operating Revenue (Expense) Admin Charge - General Fund (d)	(\$79,000)	(\$79,000)	(\$79.000)	(\$79,000)	(\$79,000)
Interest on Investment	\$82,305	\$105,650	\$97,227	\$90,000	
Total Non-Op Revenues (Exp.)	3,305	26,650	18,227	11,000	
Adjusted Net Income (Loss)	191,072	111,462	500,625	168,029	
Existing Sewer Service Fees					
Single-family Residential Parcels (\$/year-dwelling unit)	ling unit)	\$200	\$215	\$215	
Comm., Duplex & Apt Dwelling Units (\$/yr-dwelling unit)	elling unit)	\$156	\$167	\$167	
Excess Comm. (\$/Ccf of water use over 73.5 Ccf/year)	Ccf/year)	\$1.89	\$2.03	\$2.03	

a. Salary and Benefits data for FY 2005-06, FY 2006-07 are from the Sewer Fund

Budget for 2008-2010 document provided by City staff on September 17, 2008. Salaries and Benefit

data for projected years FY 2008-09 and FY 2009-10 are as per the Sewer Fund documents for FY 2009 and for FY 2010 provided by City staff on January 30, 2008. Public Works salary allocated

to the Sewer Utility equals 8.5 FTEs.

b. Expenses also include utilities for water, sewer, electricity and the telephone, but vehicles is transferred to capital. c. FY 2007-08 historical values are from the draft CAFR for the Sewer enterprise dated 10/8/08.

c. FY 2007-08 historical values are from the draft CAFR for the Sewer enterprise dated 10/8/08. d. Admin Charge include support from Administration, Personnel, Finance, City Council, Payroll,

Accounts Payable, Project Accounting etc.

starting FY 2010-11, the Machinery and Equipment charges will be \$15,000 per year and vehicle expenditures will e. The proposed budget for FY 09-10 was modified by City Staff on 1/30/09. In the Proposed Budget for years be \$60,000 per year.

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Table 2-2
Current and Projected O&M Costs

	Historical			Current	Proposed	Projected			
Description	FY 2005-06	FY 2006-07	FY 2007-08	FY 2008-09	FY 2009-10	FY 2010-11	FY 2005-06 FY 2006-07 FY 2007-08 FY 2008-09 FY 2009-10 FY 2010-11 FY 2011-12 FY 2012-13 FY 2013-14	FY 2012-13	FY 2013-14
Salary and Benefits	\$350,323	\$394,055	\$370,916	\$426,407	\$954,000	\$992,160	\$1,031,846	\$1,073,120	\$1,116,045
Other Expenses	\$70,939	\$186,599	\$84,617	\$123,105	\$111,152	\$115,598	\$120,221	\$125,030	\$130,032
Professional and Technical Services	\$97,940	\$90,348	\$81,910	\$252,903	\$167,904	\$174,620	\$181,605	\$188,869	\$196,424
Admin Charge - General Fund	\$79,000	\$79,000	\$79,000	\$79,000	\$79,000	\$82,160	\$85,446	\$88,864	\$92,419
Machinery, Eqpt & Vehicles (a)					\$445,000	\$20,000	\$20,800	\$21,632	\$22,497
Total	\$598,202	\$750,002	\$616,443		\$1,757,056	\$1,384,538	\$881,415 \$1,757,056 \$1,384,538 \$1,439,919 \$1,497,516 \$1,557,417	\$1,497,516	\$1,557,417

a. In FY 2009-10: One (1) Honda WT40 4x4-in Gas Powered Trash Pump, One (1) Multiquip 6x6-in MQ600TD80-TLRB Diesel Powered Trash Pump, Two (2) Baldor TS400T Tier 3 diesel powered towable 365KVA generators, flow monitoring equipment. In the years starting FY 2010-11, the additional Machinery, Equipment and vehicle expenditures will be \$20,000 per year.

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Table 2-3

Sewer Service Customer Loads, Unit Rate and Revenues

Use Code	User Code Description	No. of Billable Parcels (c)	Flat Fee per Parcel (\$ per year, c)	No. of Living Units (a)	Flat Fee per Living Unit (\$/DU, c)	Other Charged (CCF/Yr, b)	Rate per Other Charged (\$/CCF, b)	FY 2008-09 Sewer Service Revenue
1	Single Family Residential	1,258		1,369	\$215			\$294,335
4	Single Family Attached	832		836	\$167			\$139,612
21	Multi-family Residential	929		1,960	\$167			\$327,320
4	Industrial	56	\$167			31,466	\$2.03	\$73,228
51	Commercial	144	\$167			47,718	\$2.03	\$120,915
61	Improved Property	7	\$167			919	\$2.03	\$3,035
Total		2,973		4,165	1	80,103		\$958,444

a. DU (Living unit) data is the best available information but is not reliable.

b. Commercial, Industrial and Institutional customers pay \$2.03 per CCF for metered water use in excess of 73.5

CCF per year only. Excess water usage data shown herein for non-residential customers is from CY 2006 data.

c. The billable parcel and dwelling counts are from FY 2007/08. The FY 2007-08 unit rates billed on the FY 2008-09 County Assessor Rolls.

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Table 2-4
Amended Capital Improvement Program with SRF Loan Funding

	Historical	Current	Proposed	Projected			
Project Description	FY 2007-08	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14
Rolling Stock							
Sewer Flusher Truck & Vehicles	\$234,285	\$210,000					
EPA Administrative Order (b)	_						
Total Maximum Daily Load (TMDL) Planning and	d Engineering	\$45,000					
Wet Weather Conveyance Support (SMCSD)		\$150,000					
EPA Order Response		\$100,000					
Prioritized Projects for Local Collection Sy	stem: \$7.6 m	nillion (c)					
1a: Gate 5 Road	_		\$900,000				
1b: Spinnaker & Anchor PS			\$565,000				
1c: Prospect Avenue			\$160,000				
2a: Bridgeway Waterfront			\$690,000				
2b: Alexander Ave/ Bridgeway			\$985,000				
3a: Hurricane Gulch			\$975,000				
Projects Deferred Past FY 2013-14							
3b: Toyon Lane to Woodward			\$570,000				
3c and 3d: 517 Nevada, MLK, Bridgeway No.			\$940,000				
3e and 3f: Napa, Bee Park, Spencer Ct.			\$1,520,000				
Future: Whiskey Springs PS			\$335,000				
Identified Project Costs (current 2008 dollars)	\$234,285	\$505,000	\$7,640,000	\$0	\$0	\$0	\$0
Project Backlog	\$234,285	\$295,000	\$6,995,000	\$6,055,000	\$5,115,000	\$4,175,000	\$3,235,000
Projected Project Expenditure Rate	<u>-</u>						
Project Spending/Encumb (2008 dollars)	Escalation (%/Yr)	\$444,285	\$940,000	\$940,000	\$940,000	\$940,000	\$940,000
Expenditures in then-current costs	3%	\$444,285	\$968,200	\$997,246	\$1,027,163	\$1,057,978	\$1,089,718
Projects Expenditures							
Cash-based Pay as you go project expenditu	_ ıres (20% Min)	\$444,285	\$968,200	\$188,000	\$188,000	\$188,000	\$188,000
Projects funded from SRF Loan Proceeds				\$809,246	\$839,163	\$869,978	\$901,718
Total Project Expenditures		\$444,285	\$968,200	\$997,246	\$1,027,163	\$1,057,978	\$1,089,718
Construction Fund Using SRF Loan							
Beginning Fund Balance	_			\$0	\$0	\$0	\$0
State Revolving Fund (SRF) Loan Procee	ds			\$809,246	\$839,163	\$869,978	\$901,718
Less Projects funded from Construction Fund B				-\$809,246	-\$839,163	-\$869,978	-\$901,718
Interest Earnings on Unspent Balance				\$0	\$0	\$0	\$0
Ending Fund Balance				\$0	\$0	\$0	\$0
	d proceeds re				\$46,473	\$94,665	\$144,626

a. Source: City of Sausalito Sewer Fund Budget 2007, Capital Improvement Projects Pg 122

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b. Source: Additional Sewer Fund Capital Budget 2008-2010, City of Sausalito.

c Source: Priority Sewer Project Estimate of Probable Conceptual Costs received 12/10/08

d. The anticipated future rehabilitation project cost is based on a portion of the annual sewer system depreciation in replacement dollars.

e. One (1) Honda WT40 4x4-in Gas Powered Trash Pump, One (1) Multiquip 6x6-in MQ600TD80-TLRB Diesel Powered Trash Pump, Two (2) Baldor TS400T Tier 3 diesel powered towable 365KVA generators, flow monitoring equipment. In future years the expenditures and transfers for future rolling stock funding are \$20,000 per year. plus an additional \$10,000 for other assets.

Table 2-5

Projected Rate-based Revenue Requirements with State Revolving Loan

	Historical	Current	Proposed	Projected			
Description	FY 2007-08	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14
Increases to Sewer Service Charges			45%	%0	%8	8%	%8
Operating Revenue (Expense)							
Sewer Service Charges	\$951,956	\$958,444	\$1,389,744	\$1,389,744	\$1,500,923	\$1,620,997	\$1,750,677
Miscellaneous Revenue	\$67,885	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Less Utility Operating Expenses	(616,443)	(881,415)	(1,757,056)	(1,384,538)	(1,439,919)	(1,497,516)	(1,557,417)
Net Operating Revenue	403,398	78,029	(366,312)	6,206	62,004	124,481	194,260
Net Operating Revenue Excd Extraordinary Rolling	Stock Purchases	ses	78,688				
Non-Operating Revenue (Expense)	722 79	000 06	83.850	46 330	42 266	38.360	34 765
Debt Service on Construction Fund Bonds	, , ,)		0	(46,473)	(94,665)	(144,626)
Less Project Expenditures funded from Cash		(444,285)	(968,200)	(188,000)	(188,000)	(188,000)	(188,000)
Net Increase (Decrease) in Cash	\$500,625	(\$276,256)	(\$1,250,662)	(\$135,464)	(\$130,203)	(\$119,823)	(\$103,600)
Beginning Cash (b)		\$3,071,256	\$2,795,000	\$1,544,338	\$1,408,875	\$1,278,672	\$1,158,849
Ending Cash	\$3,071,256	\$2,795,000	\$1,544,338	\$1,408,875	\$1,278,672	\$1,158,849	\$1,055,249
Target Reserves (8 Months O&M)	\$400,000	\$600,000	\$900,000	\$900,000	\$1,000,000	\$1,000,000	\$1,000,000
SRF Loan Coverage Requirement (1.10 minimum)					2.24	1.72	1.58
Projected Sewer Service Fees Under Existing Rate Structure	ructure	\$215	\$312	\$312	\$337	\$364	\$393

a. Interest earnings for projected years is the prior year ending cash times the interest earnings rate. b. The FY 2007-08 CAFR ending balance for the sewer utility was \$2.8 million.

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Table 2-6

Projected Rate-based Revenue Requirements with SRF Loan & Uniform Rate Increases

	Historical	Current	Proposed	Projected			
Description	FY 2007-08	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14
Increases to Sewer Service Charges			23%	23%	8%	%8	8%
Operating Revenue (Expense)							
Sewer Service Charges	\$951,956	\$958,444	\$1,178,886	\$1,450,030	\$1,566,032	\$1,691,315	\$1,826,620
Miscellaneous Revenue	\$67,885	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Less Utility Expenses	(616,443)	(881,415)	(1,757,056)	(1,384,538)	(1,439,919)	(1,497,516)	(1,557,417)
Net Operating Revenue	403,398	78,029	(577,169)	66,492	127,113	194,799	270,204
Net Operating Revenue Excd Extraordinary Rolling	ng Stock Purchases	ses	(132,169)				
Non-Operating Revenue (Expense) Interest Famings on Investment (a)	97,227	000 06	83.850	40.004	37,559	35.465	33.893
Debt Service on Construction Fund Bonds				0	(46,473)	(94,665)	(144,626)
Less Project Expenditures funded from Cash		(444,285)	(968,200)	(188,000)	(188,000)	(188,000)	(188,000)
Net Increase (Decrease) in Cash	\$500,625	(\$276,256)	(\$1,461,519)	(\$81,503)	(\$69,801)	(\$52,400)	(\$28,529)
Beginning Cash (b)		\$3,071,256	\$2,795,000	\$1,333,481	\$1,251,977	\$1,182,177	\$1,129,776
Ending Cash	\$3,071,256	\$2,795,000	\$1,333,481	\$1,251,977	\$1,182,177	\$1,129,776	\$1,101,248
Target Reserves (8 Months O&M)	\$400,000	\$600,000	\$900,000	\$900,000	\$1,000,000	\$1,000,000	\$1,000,000
SRF Loan Coverage Requirement (1.10 minimum)					3.54	2.43	2.10
Projected Sewer Service Fees Under Existing Rate Structure	ructure	\$215	\$264	\$325	\$351	\$379	\$409

a. Interest earnings for projected years is the prior year ending cash times the interest earnings rate. b. The FY 2007-08 CAFR ending balance for the sewer utility was \$2.8 million.

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Projected Rate-based Revenue Requirements with SRF Loan & Historical Rate Increases Table 2-7

	Historical	Current	Proposed	Projected			
Description	FY 2007-08	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14
Increases to Sewer Service Charges (c)			%6	%6	%6	%6	%6
Operating Revenue (Expense)	8951 956	\$958 444	\$1 044 704	41 138 727	\$1 241 213	\$1.352.922	\$1 474 685
Miscellaneous Revenue	\$67,885	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Less Utility Expenses	(616,443)	(881,415)	(1,757,056)	(1,384,538)	(1,439,919)	(1,497,516)	(1,557,417)
Net Operating Revenue	403,398	78,029	(711,351)	(244,810)	(197,706)	(143,594)	(81,732)
Non-Operating Revenue (Expense) Interest Earnings on Investment (a)	97,227	90,000	83,850	35,979	24,074	11,831	(602)
Debt Service on Construction Fund Bonds				0	(46,473)	(94,665)	(144,626)
Less Project Expenditures funded from Cash		(444,285)	(968,200)	(188,000)	(188,000)	(188,000)	(188,000)
Net Increase (Decrease) in Cash	\$500,625	(\$276,256)	(\$1,595,701)	(\$396,831)	(\$408,106)	(\$414,428)	(\$414,959)
Beginning Cash (b)	070 070 080	\$3,071,256	\$2,795,000	\$1,199,299	\$802,467	\$394,362	(\$20,066)
Ending Cash Target Reserves (8 Months O&M)	\$3,071,236 \$400,000	\$600,000	\$900,000	\$802,467 \$900,000	\$394,362 \$1,000,000	(\$20,066) \$1,000,000	(\$435,025) \$1,000,000
SRF Loan Coverage Requirement (1.10 minimum)					(3.74)	(1.39)	(0.57)
Projected Sewer Service Fees Under Existing Rate Structure	Structure	\$215	\$234	\$255	\$278	\$303	\$330

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<sup>a. Interest earnings for projected years is the prior year ending cash times the interest earnings rate.
b. The FY 2007-08 CAFR ending balance for the sewer utility was \$2.8 million.
c. The Single-family user class rate in FY 2003-04 was \$152 per year, climbing to \$215 in FY 2007-08, which equals a 9 percent</sup> average increase per year.

Chapter 3 Costs of Service and Customer Loads

This chapter presents customer discharge characteristics, develops equitable costs of service and identifies the equity of the customer bills. The purpose of a cost of service analysis is to determine the wastewater system costs incurred to serve each of the customer classes in compliance with state law. To recover the costs of providing the wastewater services based on cost of service principles, the utility costs are first allocated into expenditure categories. Next, the customer burdens on the system are identified, so that their wastewater loading characteristics can be cross-referenced with the expenditure categories. This results in an allocation of the costs to each customer class. These equitably based allocations are compared with the revenues derived from each user to validate the fee structure and to determine any area for improvement.

There are three utility cost categories used in this analysis. They are:

- Customer Service Accounts
- Sewer Laterals
- Maximum Annual Wastewater Flows (Capacity Requirements)

Both the customer characteristics and the wastewater utility costs are characterized into these two groups.

3.1 Water Demands and Sewage Strengths Summary

Table 3-1 provides the metered water usage for each customer class in the City. The table also provided the sewage flows allocated to each customer class. The City parcels are cross-referenced to SMCSD records using the Assessor's Parcel Number (APN) between the account records, as well as a cross-referencing of the customer account name of record. These capacities are based on the maximum historical, annual flows which represent the level of capacity that the City must reserve for handling the potential discharges from each customer class. This table shows the total wastewater discharge among the different user classes based on their water use and water return to sewer ratios. The water demands and water return to sewer ratios are combined to estimate the sewage loads coming from each customer class. As shown, 70 percent of the flow is from residential customers and the remaining 30 percent flow is from non-residential customers. Similarly, the inflow and infiltration is divided among the residential and non-residential user classes.

Table 3-2 tabulates the number of land parcels and the sewer laterals among the residential and non-residential customers. As shown, sewer laterals are estimated at one for every two single family attached and commercial class accounts. There are only 207 non-residential parcels in the City, which is only 7 percent of the total accounts. Similarly, only 5 percent of the sewer laterals can be assigned to the non-residential customer class ltem #: A

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Table 3-3 calculates the sewer fixed asset replacement costs based on the sewer fixed asset inventory shown in Appendix 1. Based on the total asset original cost and annual depreciation costs, the replacement value for sewer fixed assets in year 2008 dollars is \$17.1 million.

3.2 Utility Expense Categories

In this section the utility expenditure categories are defined and the cost associated with each category is estimated. Table 3-4 allocates the FY 2008-09 expenditures for the wastewater utility to different expenditure categories. As shown, the expenditures can be divided among accounts, sewer lateral and the maximum sewage discharge, with 5 percent of the cost allocated to the accounts, 41 percent to the sewer lateral and the remaining 54 percent cost is allocated to the maximum discharge.

3.3 Costs of Service

The results of the mass balance are used in the calculations in this section to develop billing equity findings. Table 3-4 provides a summary of the cost of service loads for each of the user classifications, and the basic billing parameters for customer billing. As shown, 54 percent of the cost of service load is from the residential single family customers. The single-family attached class has 16 percent of the load, while the multi-family class has 27 percent of the load. The non-residential class causes the remaining 19 percent of the City's wastewater utility burden.

California Article XIII (Proposition 218) requires that sewer utility rates be fair and equitable, and that the rate-based-revenues from each customer class be proportional to the City's cost of service to that class.

Table 3-5 is the comparison of current billing versus the cost of service billings. The single-family dwelling parcel charges are currently 25 percent lower than is equitable, in comparison with the other classes. To achieve cost of service equity, the single-family parcel charges must be increased by 25 percent, on top of the revenue requirement-based changes. In contrast, multi-family fees must be reduced by 20 percent and non-residential fees by 9 percent for equity. Note that with the increases in rate-based revenues developed in Chapter 2, the combined result of the changes is an overall increase in unit rates.

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Table 3-1
Water Use Discharge to Sewer Mass Balance

		Water Use	Est. Sewer	Sewage		Discha	rges to S	ewer
User Class	Water Use (GPD, a)	Return to Sewer Ratio	Discharge (GPD)	Discharge per SFD	Dwelling Units	Ccf/Yr	MGD	Share
Residential	Per Dwelling Unit (gpd/DU)		Per Dwelling Unit (gpd/DU)	_				
Single Family	199	70%	139	100%	1,369	93,141	0.19	29%
Single Family Attached	119	90%	107	77%	836	43,595	0.09	14%
Multi-family Units	103	90%	93	67%	1,960	88,759	0.18	28%
Total Residential			111	80%	4,165	225,496	0.46	70%
Non-residential	Total Class (gpd)		Total Class	_	Accounts			
Total Non-residential	216,045	90%	194,441		207	94,881	0.19	30%
Subtotal Flows						320,376	0.66	100%
Flow into Later Inflow and Infiltration (I/I) Connections				Flow into P	ipe Joints (
Share of Total I/I (MGD)	10%		_	15%	75%		•	
User Class	No. of Laterals	Share of I/I (MGD)		Hillsides	Bayside	I/I (MGD)	Total (MGD)	
Single Family	51%	0.014	_	41%	29%	0.076	0.089	33%
Single Family Attached	17%	0.005		19%	14%	0.035	0.040	15%
Multi-family Units	27%	0.007		39%	28%	0.072	0.079	29%
Non-residential	5%	0.001		0%	30%	0.060	0.061	23%
Subtotal I/I Flows	100%	0.027	=	100%	100%	0.243	0.27	100%
			G	rand Total Se	wage Flow a	at WWTP	0.93	=

a. Source: Water Usage Data for Dist 7 provided by MMWD (Residential and Non-Residential)
GPD: Gallons per day. MGD: million gallons per day. PPH: Persons per household. Ccf/Yr: Hundred cubic feet per year
Refer to Appendix 3 for calculations of inflow and infiltration.

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Table 3-2
FY 2008-09 Customer Accounts Billing Characteristics

	Dwelling Units	Water Use	Land P	arcels	Sewer	Laterals
User Class	(DU)	(Ccf/yr)	Number	Share	Number	Share
Residential						
Single Family Residential	1,369		1,258	42%	1,258	51%
Single Family Attached	836		832	28%	416	17%
Multi-family Residential	1,960		676	23%	676	27%
Residential Subtotal	4,165	na	2,766	93%	2,350	95%
Non-residential	<u> </u>					
Industrial			56	1.9%	56	2.3%
Commercial			144	4.8%	72	2.9%
Improved Property			7	0.2%	7	0.3%
Non Residential Subtotal		105,423	207	7.0%	135	5.4%
Grand Total		•	2,973	100%	2,485	100%

a. Sewer laterals are estimated at two per single-family attached and commercial accounts.

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Table 3-3 Sewer System Fixed Assets

	FY 2	2007-08 Book V	alue	2008	Replacement	Cost
	Original	Annual			Annual	
Description	Cost	Depreciation	OCLD	Cost	Depreciation	RCNLD
Rolling Stock	\$332,128	\$23,699	\$77,568	\$484,534	\$33,974	\$109,441
Sewer Manholes	\$1,877,706	\$28,888	\$890,491	\$12,943,334	\$199,128	\$3,615,764
Sewer Main Pipelines	\$505,445	\$11,620	\$103,320	\$3,607,125	\$77,816	\$456,743
Pump Stations	\$6,620,277	\$101,850	\$3,358,962	\$33,846,936	\$520,722	\$12,842,720
Grand Total Value	\$9,335,556	\$166,057	\$4,430,341	\$50,881,928	\$831,641	\$17,024,668

Refer to Appendix 1 for details.

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Table 3-4
Cost of Service Allocation, Customer Loads & Costs

		Allocatio	า	Utility L/T
	_	Sewer	Maximum	Cost of
Description	Account	Lateral	Discharge	Service
Cost Allocations				
O&M (FY 08-09 Budget)	10%	60%	30%	\$881,415
Cost of Capital (a)		20%	80%	\$831,641
Total Allocation	5%	41%	54%	
Total Allocation	\$88,142	\$695,177	\$929,737	\$1,713,056
Customer Classes				Weighted Shares
Residential	_		•	
Single Family Residential	42%	51%	29%	38%
Single Family Attached	28%	17%	14%	16%
Multi-family Residential (a)	23%	27%	28%	27%
Residential Subtotal	93%	95%	70%	81%
Non-residential				
Industrial	1.9%	2.3%		
Commercial	4.8%	2.9%		
Improved Property	0.2%	0.3%		
Non-residential Subtotal	7%	5%	30%	19%
Grand Total	100%	100%	100%	100%

a. The cost of capital is equivalent to annual depreciation in current dollars.

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Table 3-5
Current Billing versus Equitable Charges

	FY 2008-09) Charges	Cost o	f Service	Change in
Description	Bills	Share	Bills	Allocation	Unit Rates
Residential					
Single Family Residential	\$294,335	31%	\$368,997	38%	25%
Single Family Attached	\$139,612	15%	\$149,696	16%	7%
Multi-family Residential	\$327,320	34%	\$261,134	27%	-20%
Non-residential	\$197,177	21%	\$178,618	19%	-9%
Grand Total	\$958,444	100%	\$958,444	100%	-

COS: Cost of Service

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Chapter 4 Rate Alternatives and Conclusions

The purpose of this chapter is to evaluate alternative rate structure and recommend updated fees. The update has been designed to ensure the recovery of adequate rate-based revenues in a fair and equitable manner consistent with City policies.

Wastewater systems are designed to serve differing loads from the various users, such as, low steady flows versus intermittent heavy discharges. To provide rate equity, it is necessary to allocate the costs of mandating these loads in proportion to their burdens on the system. This is accomplished by determining the cost of service for each loading parameter, and multiplying these values by each customer classes' wastewater load, to yield user charges based on the cost of providing service. While much of this calculation was completed in Chapter 3, in this section the unit rates are provided in a rate format useful in actually billing the sewer system customers.

4.1 Cost of Service Based Rates

The current billing method for wastewater services is structured around the concept of a unit charge per dwelling unit (DU). This applies to all residential accounts, whether single family or multi-family. Non-residential customers are charged based on base service charge of \$167 per year, plus a variable component using water demands as a proxy for the quantity of wastewater flow. The use of residential dwelling units for sewer service charges is both popular and equitable among nationwide wastewater service providers. Table 4-1 summarizes cost of service based rates. This table shows the unit rates for residential and non-residential customers for FY 2008-09, based on the cost of services finding in previous chapter. It shows that for single-family parcels, an equitable charge of \$270 replaces the current \$215 per year actual bill.

The following section describes an alternative non-residential fee structures for the City's consideration, in an attempt to increase billing stability, administrative convenience and greater equity.

4.2 Non-Residential Rate Alternatives

Table 4-2 provides rate structure alternatives for the non-residential customer class. There are four different alternatives for City's consideration presented in this table. These alternatives include multi-year water use averaging, different fixed customer charges and different excess use cut offs. All alternatives are based on a combination of fixed capacity-based costs and variable water demand-based rates. The water demand considered in current rate structure is based on the prior year-round water usage. In our evaluation, Alternative 1 is based on the water usage in CY 2007, while Alternative 2 and Alternative 3 consider the average water usage for the last two years. Alterative 4 is capacity-based rate structure derived from the historical maximum usage. The advantage of this alternative is that it incorporates maximum water demand for every account, which better represents the maximum sewage

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discharge as a proxy for the readiness to serve capacity allocated to each account. This attribute is important due to the wide annual variation in sewage discharged.

We propose that the future customer charges be modified to reflect the utility system capacity allocated to each of the 207 non-residential customers, based on their historical maximum water demands from the most recent five years, rather than the current allocation based on the "excess" portion of the prior year's actual water use. Appendix 4 provides sewage strength information useful in categorizing the discharges and customer classifications of the commercial accounts.

Table 4-2 also shows the calculated bills for commercial customers under the current rates and under each alternative rate structures. Note that these changes are based on the current year revenues, and do not include any increase to City revenues with the future year increases in rate-based revenues. In other words, there will be increases in both residential and non-residential bills, even without a change in the rate structure.

4.3 Recommended Rates

Based on the evaluation of described above, it is recommended that the City adopt the updated sewer service charges and Alternative 4 non-residential rate structure shown in Table 4-2. The existing rate structure should be replaced with the cost of service rates for residential parcels. In order to encourage non-residential customers to reduce their loads on the collection system, we recommend that only the most recent five years of water demands be used to calculate the maximum discharges. In this way, customers reducing their discharges will see reductions in charges.

Table 4-3 uses the cost of service based rates and alternative non-residential rates, and the rate-based revenue requirements developed in chapter 2, to identify the projected unit rates. As shown, single-family dwelling rate are projected to increase 82 percent from the current \$215 per year to \$391 in the next year and to \$492 by FY 2013-14.

However, we recommend an alternative that equitably distributes the single-family rate increase over two years. As shown in Table 4-3, the \$215 bill will be increased to \$360 on July 1, 2009 and to \$422 on July 1, 2010 rather than 2011. In this way, total revenues collected from this single-family dwelling class are the same in both alternatives over the phase-in period while the increase does not come solely in one year. The non-residential fixed unit rate will increase 56 percent from current \$167 per year to \$242 per year in the next year, while the variable rate will decrease 4 percent from current \$2.03 per Ccf to \$1.94 Ccf in the next year. Overall, non-residential bills will decrease by 9 percent for cost of service equity but increase 45 percent for revenue requirements.

Table 4-4 provides a comparison survey of current and projected single-family dwelling charges with other local communities. As shown, the City's rates remain significantly higher than other utilities, in part due to the lack of economy of scale, and in part due to the progressive capital expenditure plan for facility replacement and renewal.

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Table 4-1 FY 2008-09 COS-based Rates with Existing Rate Structure

	To	otal	Customer	COS-based	Excess Water Use	
Description	Percent	Cost	Units	Unit Rates	(CCF/Yr, a)	Fee
Residential			Dwelling Units	\$/DU -Year		
Single Family Residential Single Family Attached Multi-family Residential	38% 16% 27%	\$368,997 \$149,696 \$261,134	1,369 836 1,960	\$270 \$179 \$133 \$/Parcel-		40.5
Non-residential	19%	\$178,618	Parcels 207	Year \$133	76,808	\$/Ccf \$1.97
Grand Total	100%	\$958,444	. 201	\$100	7 0,300	ψ1.01

a. The excess water use is based on the average multi-family dwelling unit water use of 103 Hcf/yr.

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Table 4-2
Non-Residential Billable Wastewater Rate Alternatives

		Equitab	le Rate Altei	rnatives (FY	Equitable Rate Alternatives (FY 2008-09 Revenues)	/ennes)
	Actual FY	Existing				Proposed
Description	09 Bills	Structure	Alt 1	Alt 2	Alt. 3	Alt. 4
						Allocated
Water Used for Billing Calculation	CY 2005	CY 2007	CY 2007	Last 2 Yrs	Last 2 Yrs	Capacity
Water Use for Billing (Hcf/Yr)						
Total Estimated Use (average per year)	88,037	92,441	92,441	92,160	92,160	92,441
Billable (Excess) Water Use	78,907	76,808	67,374	76,336	92,160	107,536
Number of Bills Above Minimum Use	129	108	87	109	203	па
Account Charge (\$ per Parcel-Yr)	\$167	\$133	\$270	\$167	\$30	\$167
Non-residential Variable Water-usage Charge	arge					
	\$2.03	\$1.97	\$1.82	\$1.89	\$1.87	\$1.34
Unbilled Water Use (Hcf/year-acct)	73.5	103	199	103	0	0
Commercial Account Billing Characteristics	ics					
Average Bill	\$941	\$863	\$863	\$863	\$863	\$863
Typical (Median) Bill	\$343	\$176	\$270	\$197	\$252	\$397
Maximum Bill	\$16,881	\$15,741	\$14,563	\$15,308	\$15,239	\$11,169
Revenues (FY 2008-09)	\$194,749	\$178,618	\$178,618	\$178,618	\$178,618	\$178,618
No. of Non-residential Accounts	207	207	207	207	207	207

Non-residential sewer billing alternatives include multi-year water use averaging, different fixed customer charges and different excess use cutoffs. The account charge and unbilled (minimum use) charge should correspond to average water use of residential accounts. Item #: A
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Table 4-3 Proposed Rates

	No. of	Current	Equitable	Projected				
Description	Accounts	FY 20	FY 2008-09	FY 2009-10	FY 2010-11	FY 2011-12	FY 2012-13	FY 2013-14
Change in Rate-based Revenues	sen			45%	%0	%8	%8	%8
Rates for Residential Dischargers (\$/year-dwelling unit)	argers (\$/year-c	welling uni	t)					
Single-family Dwelling	1,258	\$215	\$270	\$391	\$391	\$422 same as	\$456	\$492
		Change: Change:	25% \$5 per Month	82% \$15 per Month		above		
Single Family Attached	832	\$167	\$179	\$260	\$260	\$280	\$303	\$327
	Dwellings	Change:	4%	25%		same as above		
Multi-family Residential	1,960	\$167	\$133	\$193	\$193	\$209	\$225	\$243
		Change:	-20%	16%		same as above		
Rates for Non-Residential Di	<u>ial Dis</u> charger (Allocated Capacity based on Historic Maximum Water Use)	cated Capa	city based or	η Historic Max	imum Water	. Use)		
Commercial (\$/yr-parcel)	207	\$167	\$133 - 20 %	\$242 56%	\$242	\$262	\$282	\$305
Unit Rate (\$/Ccf, b)		\$2.03	\$1.97 -3 %	\$1.94 -4%	\$1.94	\$2.10	\$2.27	\$2.45
Alternative Single-family Dwelling Rates to Equitably Distribute Increases over Two Years (\$/year-dwelling unit)	relling Rates to	Equitably [Distribute Inc	reases over T	wo Years (\$	/year-dwell	ing unit)	
Single-family Dwelling	1,258	\$215		\$360	\$422	\$422	\$456	\$492
		Change:		%89	17%	%0		
		Change:		\$12 per Month	\$5 per Month	above		

assessor's annual tax rolls. Projected FY 2009-10 unit rates are based on the cost of service equity findings. The following year rate SMCSD treatment charges are in addition to the City rates for sewage collection shown here. All charges are billed on the County increases are set to rate-based revenue requirements.

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a. The excess use charge to commercial accounts is based on two year's of average water consumption with a credit of 103 Hcf/year.

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b. The Unit Rate (\$/Ccf) currently is based on the excess use, but would be replaced under the proposed rate

Table 4-4 Comparison of Local Sewer Service Charges

		•	t Monthly Char -family Dwellin	•	•	nt Annual Cha e-family Dwelli	•
Agency (Regional Treatment Authority)	Effective Date	Treatment	Conveyance	Total	Treatment	Conveyance	Total
Tiberon/Belvedere	Unknown			\$95			\$1,139
2010 Sausalito (SMCSD)	Jul-10	\$50	\$33	\$83	\$600	\$391	\$991
Marin City (SMCSD)	Jul-10			\$69			\$827
Current Sausalito (SMCSD)	Aug-08	\$32	\$18	\$50	\$388	\$215	\$603
City of Larkspur	Jul-09			\$46			\$552
Las Gallinas Valley Sanitary District	Jul-10			\$47			\$563
Ross Valley (Sanitary District No. 1 of Marin County (CMSA, a)	Jul-08			\$40			\$480
San Rafael SD (CMSA)	Jul-07			\$40			\$474
Marin City (SMCSD)	Jul-08			\$37			\$439
Marin SD #2 (Corte Madera, CMSA)	Jul-08			\$36			\$436
Mill Valley (SASM)	Aug-07			\$25			\$297

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a. The District receives ~30 percent of its revenues from property tax appropriations. SMCSD is projected to be increasing its treatment rates from \$388 to \$600 per single family dwelling in 2010.

Appendices

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Appendix 1 Fixed Assets and Rolling Stock Inventory

Description	Year in Service	Service Life (a)	Years in Service	Updated Service Life	Original Cost (OC)	Annual Depreciation	OCLD	ENRCCI	Replaceme RC New	nt Cost (RC) Depreciation	RCNLD
Dallian Otaala	0000										
Rolling Stock International Water Tanker		30	17	30	\$40,076	\$1,336	\$17,366	6,222	\$63,463	\$2,115	\$27,500
GMC Sewer Rodder Truck	1993	15	15	17	\$21,395	\$1,297	\$1,945	6,478	\$32,542	\$1,972	\$2,958
John Deere 310D Backhoe	1996	15	12	15	\$33,613	\$2,241	\$6,723	6,630	\$49,952	\$3,330	\$9,990
SMC 2500 Pickup	1993	10	15	17	\$21,395	\$1,297	\$1,945	6,478	\$32,542	\$1,972	\$2,958
nternational Dump Truck	1993	10	9	10	\$32,171	\$3,217	\$3,217	6,824	\$46,451	\$4,645	\$2,956 \$4,645
Ford Pickup F250 Camera Truck	1999	10	9	10	\$11,304	\$1,130	\$1,130	6,824	\$16,321	\$1,632	\$1,632
Ford F5000 Sewer Flusher Truck	1994	15	14	15	\$95,000	\$6,169	\$8,636	6,530	\$143,344	\$9,308	\$13,032
Push/Pull Color Sewer Camera	1994	15	9	15	\$17,000	\$1,133	\$6,800	6,824	\$24,546	\$1,636	\$9,818
	2002	10	6	10	\$35,000	\$3,500	\$14,000	7,661	\$45,016	\$4,502	\$18,000
Self Propelled Color Sewer Camera	1997	20	11	20	\$850 \$850	\$3,500 \$43	\$383	6,731		\$4,502 \$62	\$16,00
Air Compressor Fri-Pod	2006	15	2	20 15				9,109	\$1,244		
Air Ventilator	2000	20	8	20	\$2,800 \$250	\$187 \$13	\$2,427 \$150	7,448	\$3,029 \$331	\$202 \$17	\$2,625 \$198
	2003	20	5	20		\$225				\$17 \$284	
Gas Alert (3)	2005	20	3	3	\$4,500 \$100	\$30	\$3,375	7,795	\$5,688 \$116	\$204 \$35	\$4,266 \$11
Digital Color Camera	2003	40	5 5	40	\$5,000	\$125	\$9 \$4,375	8,462 7,795		\$35 \$158	
Electronic Pipe Locators (2)			1	40		\$125 \$75	\$4,375 \$2,925		\$6,320		\$5,530
Radio Detection Pipe Locator	2007 2007	40 20	1	20	\$3,000	\$75 \$18	\$2,925 \$333	9,132	\$3,237	\$81 \$19	\$3,156
Metal Detector			-		\$350			9,132	\$378		\$359
Color Training TV	2005	5	3	5	\$575	\$115	\$230	8,462	\$670	\$134	\$268
Computer System	2004	5	4	5	\$7,500	\$1,500	\$1,500	8,161	\$9,055	\$1,811	\$1,811
/ideotape Capture	2005	5	3	5	\$250	\$50	\$100	8,462	\$291	\$58	\$116
Rolling Stock Value	1997	•	11	14	\$332,128	\$23,699	\$77,568	9,853	\$484,534	\$33,974	\$109,44
Sewer Manholes by Year of Service											
Number Built)	2008	65									
195	1950	65	58	65	\$374,400	\$5,760	\$40,320	626	\$5,891,841	\$90,644	\$634,50
199	1965	65	43	65	\$497,500	\$7,654	\$168,385	1,192	\$4,112,058	\$63,262	\$1,391,7
96	1970	65	38	65	\$288,000	\$4,431	\$119,631	1,598	\$1,775,760	\$27,319	\$737,62
49	1980	65	28	65	\$210,492	\$3,238	\$119,819	4,388	\$472,648	\$7,272	\$269,04
11	1981	65	27	65	\$34,687	\$534	\$20,279	4,592	\$74,427	\$1,145	\$43,51
1	1983	65	25	65	\$2,450	\$38	\$1,508	5,123	\$4,712	\$72	\$2,900
6	1986	65	22	65	\$25,569	\$393	\$16,915	5,508	\$45,739	\$704	\$30,258
11	1989	65	19	65	\$44,846	\$690	\$31,737	5,799	\$76,197	\$1,172	\$53,924
7	1998	65	10	65	\$115,107	\$1,771	\$97,398	6,743	\$168,197	\$2,588	\$142,32
7	2004	65	4	65	\$113,181	\$1,741	\$106,216	8,161	\$136,645	\$2,102	\$128,23
5	2006	65	2	65	\$35,850	\$552	\$34,747	9,109	\$38,778	\$597	\$37,585
12	2007	65	1	65	\$135,624	\$2,087	\$133,537	9,132	\$146,332	\$2,251	\$144,08
Manhole Value	1974		34	65	\$1,877,706	\$28,888	\$890,491	9,853	\$12,943,334	\$199,128	\$3,615,76
Pump Station	2008	30									
Anchor Pump Station	1965	30	43	47	\$75,000	\$1,586	\$6,818	1,192	\$619,908	\$13,106	\$56,355
Whiskey Springs Pump Station	1970	30	38	42	\$200,000	\$4,785	\$18,182	1,598	\$1,233,166	\$29,502	\$112,10
Gate 5 Pump Station	1960	30	48	53	\$165,000	\$3,125	\$15,000	1,012	\$1,607,097	\$30,437	\$112,10
Sate 5 Pump Station (2)	1980	30	28	31	\$65,445	\$2,125	\$63,320	4,388	\$146,953	\$4,771	\$140,10
Pump Station Value	1973		35	43	\$505,445	\$11,620	\$103,320	9,853	\$3,607,125	\$77,816	\$456,74
ump ciation value	1010			40	ψουσ,44σ	Ψ11,020	Ψ100,020	5,000	ψ0,007,120	Ψ77,010	Ψ+00,7+0
Pipeline by Yr of Svc (Length (ft))	2008	65	50	05	#074 700	# F 700	640.007	000	ΦE 050 400	600.000	\$000.04
25,407	1950	65	58	65	\$371,768	\$5,720	\$40,037	626	\$5,850,422	\$90,006	\$630,04
42,593	1965	65	43	65	\$1,433,978	\$22,061	\$485,346	1,192	\$11,852,463	\$182,346	\$4,011,6
21,361	1970	65	38	65	\$1,068,036	\$16,431	\$443,646	1,598	\$6,585,331	\$101,313	\$2,735,4
19,868	1975	65	33	65	\$1,986,759	\$30,566	\$978,097	2,807	\$6,973,828	\$107,290	\$3,433,2
1,499	1984	65	24	65	\$91,122	\$1,402	\$57,477	5,049	\$177,822	\$2,736	\$112,16
76	1985	65	23	65	\$14,345	\$221	\$9,269	5,055	\$27,961	\$430	\$18,06
1,319	1988	65	20	65	\$125,529	\$1,931	\$86,905	5,734	\$215,702	\$3,318	\$149,33
1,320	1990	65	18	65	\$87,447	\$1,345	\$63,231	6,056	\$142,275	\$2,189	\$102,87
1,510	1991	65	17	65	\$129,171	\$1,987	\$95,388	6,222	\$204,552	\$3,147	\$151,05
1,056	1992	65	16	65	\$46,349	\$713	\$34,940	6,295	\$72,546	\$1,116	\$54,68
7,230	1993	65	15	65	\$722,435	\$11,114	\$555,719	6,478	\$1,098,819	\$16,905	\$845,24
590	1994	65	14	65	\$16,196	\$249	\$12,708	6,530	\$24,438	\$376	\$19,17
912	1995	65	13	65	\$32,404	\$499	\$25,923	6,558	\$48,685	\$749	\$38,94
1,296	1998	65	10	65	\$49,424	\$760	\$41,820	6,743	\$72,219	\$1,111	\$61,10
449	2001	65	7	65	\$59,246	\$911	\$52,866	7,422	\$78,647	\$1,210	\$70,17
120	2002	65	6	65	\$20,000	\$308	\$18,154	7,661	\$25,723	\$396	\$23,349
835	2006	65	2	65	\$194,931	\$2,999	\$188,933	9,109	\$210,852	\$3,244	\$204,36
800	2007	65	1	65	\$171,137	\$2,633	\$168,504	9,132	\$184,649	\$2,841	\$181,80
Pipeline Value	1976	-	32	65	\$6,620,277	\$101,850	\$3,358,962	9,853	\$33,846,936	\$520,722	\$12,842,7
-											
_			Average								
-	Average		4.5								
Summary Rolling Stock	Average 1997		11	14	\$332,128	\$23,699	\$77,568		\$484,534	\$33,974	\$109,44
			11 34	14 65	\$332,128 \$1,877,706	\$23,699 \$28,888	\$77,568 \$890,491		\$484,534 \$12,943,334	\$33,974 \$199,128	
Rolling Stock Sewer Manholes	1997 1974		34	65	\$1,877,706	\$28,888	\$890,491		\$12,943,334	\$199,128	\$3,615,70
Rolling Stock Sewer Manholes Pump Station	1997 1974 1973		34 35	65 43	\$1,877,706 \$505,445	\$28,888 \$11,620	\$890,491 \$103,320		\$12,943,334 \$3,607,125	\$199,128 \$77,816	\$3,615,76 \$456,74
Sewer Manholes	1997 1974	-	34	65	\$1,877,706	\$28,888	\$890,491	<u>-</u>	\$12,943,334	\$199,128	\$109,44° \$3,615,76° \$456,74° \$12,842,7° \$17,024,6°

ENRCCI: Engineering News Record Construction Cost Index. OCLD: Original Cost Less Depreciation. RCNLD: Replacement Cost New Less Depreciation This index represents inflationary escalations. FY 2007-08 actual depreciation is \$141,390 excluding rolling stock per the 10/8/08 Draft CAFR. Source: City of Sausalito, Sanitary Sewer Vehicle and Equipment Inventory.

Inventory.

(a) Total service life of the equipments assumed based on the Asset Life and Refurbish schedule. Pump station maintenance work done in 1989 and after is not being considered here.

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Appendix 2 Household Occupancy Survey

Residential Class	FY 2008-09 Billed Dwelling Units	Occupied Housing Units per Census	Population	Average Household Occupancy (PPH)
Single Family Residential	1,369	1,655	3,152	1.90
Single Family Attached Residential	836	419	782	1.87
Multi-family Residential (a)	1,960	2,002	3,139	1.57
Total Residential	4,165	4,076	7,073	1.74

Source: US Census data for year 2000 for City of Sausalito

(a) The occupied housing units for Multi-family residential also includes the Mobile homes. PPH - Person per household

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Appendix 3 FY 2007-08 Sewage Discharges

				-	Cit	y of Sausalito	(MGD)
De	escription	Average WWTP Influent Flow (MGD)	Average TCSD Flow (MGD)	Average Marine City Flow (MGD)	Total to WWTP	Inflow and Infiltration (I/I)	Wastewater Discharge to Sewer
_	ummertime Flov nual Average F	. •			100% 100%	21% 29%	79% 71%
2007	July	1.4	0.28	0.20	0.92	0.19	0.73
	August	1.4	0.29	0.19	0.92	0.19	0.73
	September	1.4	0.30	0.19	0.91	0.19	0.72
	October	1.5	0.33	0.20	0.97	0.31	0.66
	November	1.5	0.34	0.20	0.96	0.30	0.66
	December	1.7	0.43	0.25	1.02	0.36	0.66
2008	January	2.4	0.66	0.36	1.38	0.72	0.66
	February	1.9	0.51	0.35	1.04	0.38	0.66
	March	1.4	0.36	0.27	0.77	0.11	0.66
	April	1.3	0.31	0.28	0.71	0.15	0.56
	May	1.4	0.30	0.31	0.79	0.17	0.62
	June	1.4	0.29	0.36	0.75	0.16	0.59
Ave	erage Flow	1.56	0.37	0.26	0.93	0.27	0.66

a. Dry season I/I in Sausalito is estimated to be no less than 10 percent. Dry season is from April through September.

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b. Sausalito discharges to the sewer are estimated to be constant for all months.

Appendix 4
Non-Residential Parcels and Billing Alternatives

										Current	Alt 1	ater Use Alt 2	Alt. 3	Acct) Alt 4
					Water II	a Avaa	Full (CY Wate	r Use			Last 2 Yrs		Allocated
					Water Us			(Hcf/yr)		CY 2007	CY 2007	Last 2 Yrs	Last 2 Yrs	Capacity
Parcel apn	Wtr Cust.	Service Addr Name	City Code	Use Code	Cur Yr	2-yr avg	2007	2006	2005	103	199	103	0	Max His
6315206	153478	305 GATE 5 R JOE RAY	7	41	3	154	3	304	66	0	0	51	154	304
6507124	na	753&755 BRID na	7	51	6	5	6	4	4	ō	Ō	0	5	6
6513214	334797	585 BRIDGEWZIMBABWE SCU	J 7	51	7	8	7	8	10	0	0	0	8	10
6513106	111255	675 BRIDGEWBIJAN PETRI	7	51	9	12	9	14	27	0	0	0	12	27
6517106	431805	539 BRIDGEWJUDY EGELSTA	AI 7	51	10	29	10	47	0	0	0	0	29	47
6505508	414902	325 PINE ST CATHY STIERH	C 7	51	13	13	13	13	19	0	0	0	13	19
6513105	415641	679&681 BRID JOE HOFFMAN	7	51	13	45	13	77	11	0	0	0	45	77
6316201	431857	4000 BRIDGE\4000 BRIDGEW	A 7	41	17	19	17	20	0	0	0	0	19	20
6505112	423181	212 CALEDONL & L PROPERT	7	51	18	24	18	29	39	0	0	0	24	39
6506103	105517	1001 BRIDGE\BRIDGEWAY TE	= 7	51	20	15	20	10	13	0	0	0	15	20
6314020	431273	2660 BRIDGE\MARIN FREEHO	7 וכ	51	20	22	20	24	0	0	0	0	22	24
6507121	na	723 BRIDGEWna	7	51	21	17	21	13	57	0	0	0	17	57
6513109	na	2 PRINCESS Sna	7	51	21	25	21	28	49	0	0	0	25	49
6513108	111617	669&667 BRID HANSON GALL	E 7	51	24	22	24	20	23	0	0	0	22	24
6505506	120956	42 CALEDONI BABETTE PINS	K 7	51	27	27	27	26	19	0	0	0	27	27
6504104	120079	HUMBOLDT S SAUSALITO YA	C 7	41	1,397	1,273	1,397	1,149	1,158	1,294	1,198	1,170	1,273	1,397
6312002	115215	CAPITAL ST ARQUES	7	41	1,483	1,645	1,483	1,807	1,817	1,380	1,284	1,542	1,645	1,817
6503401	126505	619 HUMBOLE MARGARITAVIL	L 7	51	1,512	1,480	1,512	1,448	1,148	1,409	1,313	1,377	1,480	1,512
6316205	168754	3020-B BRIDG NAUTILUS OF M	л 7	41	1,533	1,625	1,533	1,717	2,190	1,430	1,334	1,522	1,625	2,190
6313002	172409	2500 BRIDGE\MOLLIE STONE		41	1,845	1,785	1,845	1,724	1,352	1,742	1,646	1,682	1,785	1,845
6308007	169884	GATE 1 RD SCHOONMAKE	F 7	41	2,604	2,624	2,604	2,643	2,528	2,501	2,405	2,521	2,624	2,643
6517213	na	558 BRIDGEWna	7	51	3,182	3,003	3,182	2,824	2,753	3,079	2,983	2,900	3,003	3,182
6314015	428074	1 HARBOR DFEQUITY OFFICE	7	51	3,472	3,353	3,472	3,233	2,895	3,369	3,273	3,250	3,353	3,472
6303001	700410	298 HARBOR CLIPPER YACH		41	3,987	3,678	3,987	3,369	5,420	3,884	3,788	3,575	3,678	5,420
6316104	700400	3001 BRIDGE\BAYSIDE MGMT	7	41	7,232	6,946	7,232	6,659	5,605	7,129	7,033	6,843	6,946	7,232
6506346	na	777 BRIDGEWna	7	51	8,040	8,127	8,040	8,213	6,366	7,937	7,841	8,024	8,127	8,213
6513212	na	19 PRINCESS na	7	51	0	8	0	16	0	0	0	0	8	16
6513204	na	625 BRIDGEWna	7	51	0	0	0	na	0	0	0	0	0	0
6505223	na	201 CALEDONna	7	51	0	0	0	na	0	0	0	0	0	0
6505423	na	na na	na	51	0	0	0	na	na	0	0	0	0	0
6408201	404435	300 NAPA ST GALILEE HARB	C 8	41	50	0	0	na	0	0	0	0	0	0
6314028	na	na na	na	41	39	39	39	na	na	0	0	0	39	39
6313001	na	na na	na	41	433	433	433	na	674	330	234	330	433	674
6312001	na	na na	na	41	476	476	476	na	643	373	277	373	476	643
6314026	na	na na	na	51	1,025	1,025	1,025	na	na	922	826	922	1,025	1,025
6509317	na	na na	na	51	1,104	1,104	1,104	na	na	1,001	905	1,001	1,104	1,104
6503601	na	na na	na	41	2,022	2,022	2,022	na	1.533	1,919	1,823	1,919	2,022	2,022
6315106	na	na na	na	51	4,368	4,368	4,368	na	4,356	4,265	4,169	4,265	4,368	4,368
6524217	na	na na	na	51	50	50	na	na	77	0	0	0	50	77
6527110	na	na na	na	51	50	50	na	na	81	0	0	0	50	81
6416201	na	na na	na	51	50	50	na	na	91	0	0	0	50	91
6513107	na	na na	na	51	50	50	na	na	92	0	0	0	50	92
6516316	na	na na	na	51	50	50	na	na	138	0	0	0	50	138
6513101	na	na na	na	51	50	50	na	na	155	0	0	0	50	155
6517101	na	na na	na	51	50	50	na	na	188	0	0	0	50	188
6416204	na	na na	na	51	50	50	na	na	272	0	0	0	50	272
6301012	na	na na	na	41	50	50	na	na	466	0	0	0	50	466
6301003	na	na na	na	41	50	50	na	na	na	0	0	0	50	0
6301016	na	na na	na	41	50	50	na	na	na	0	0	0	50	0
6302001				41	50	50				0	0	0	50	0
	na	na na	na	41	50	50	na	na	na	0	0	0	50	0
6303003	na	na na	na				na	na	na	-	-	0		
6304003	na	na na	na	51 51	50 50	50 50	na	na	na	0	0	0	50 50	0
6311027	na	na na	na				na	na	na					
6311028	na	na na	na	51 51	50 50	50 50	na	na	na	0	0	0	50 50	0
6311029 6311030	na	na na	na	51 51	50 50	50 50	na	na	na	0	0			0
6311030	na	na na	na	51 51	50 50	50 50	na	na	na	0	0	0	50 50	0
0011001	na	na na	na				na	na	na					
6313006	na	na na	na	51	50 50	50	na	na	na	0	0	0	50	0
6314004	na	na na	na	41		50	na	na	na	-	-	0	50	0
6314005	na	na na	na	41	50	50	na	na	na	0	0	0	50	0
6408101	na	na na	na	41	50	50	na	na	na	0	0	0	50	0
6408202	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6414105	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6416203	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6416701	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6416726	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6501502	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6503101	na	na na	na	41	50	50	na	na	na	0	0	0	50	0
6503407	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6503603	na	na na	na	41	50	50	na	na	na	0	0	0	50	0
6503805	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6505502	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6506101	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6509116	na	na na	na	61	50	50	na	na	na	0	0	0	50	0
6509316	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6509318	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6513103	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
6513104										_		_		
6513104 6513312	na	na na	na	51	50	50	na	na	na	0	0	0	50	0
	na na	na na na na	na na	51 51	50 50	50 50	na na	na na	na na	0	0	0	50 50	0

a. This table is created for general information only and there is some data hidden in the table

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											_		Proje	cted Bills		
				FY 08-0	9 Act Bills		bill	ct ov	er min	nimum	chg	Current	Alt 1	Alt 2	Alt. 3	Alt. 4
Parcel apn	Wtr Cust. #	Service Addr Name	FY 08-09 Act Bills	Excess Use 2005	Calculated Excess use		Curr ent A	Alt 1	Alt 2	Alt. 3	actual	CY 2007	CY 2007	Last 2 Yrs	Last 2 Yrs	Allocat Capacity
6315206	153478	305 GATE 5 R JOE RAY	\$635	230	0	\$167	0	0	1	1	1	\$133 \$433	\$270			\$57
6507124 6513214	na 334797	753&755 BRID na 585 BRIDGEW ZIMBABWE SCU	\$167 \$167	0	0		0	0	0	1	0	\$133 \$133	\$270 \$270		\$39 \$44	\$17 \$18
6513106	111255	675 BRIDGEW BIJAN PETRI	\$167	0	0	\$167	0	0	0	1	ő	\$133	\$270		\$51	\$20
6517106	431805	539 BRIDGEW JUDY EGELSTAI		0	0	\$167	0	0	0	1	0	\$133	\$270		\$83	\$23
6505508	414902	325 PINE ST CATHY STIERHO		0	0	\$167	0	0	0	1	0	\$133	\$270		\$54	\$19
6513105	415641	679&681 BRID JOE HOFFMAN	\$174	3	0	\$167	0	0	0	1	1	\$133	\$270		\$114	\$27
6316201	431857	4000 BRIDGE\ 4000 BRIDGEWA		0	0	\$167	0	0	0	1	0	\$133	\$270		\$64	\$19
6505112 6506103	423181 105517	212 CALEDON L & L PROPERTY 1001 BRIDGE\BRIDGEWAY TE	\$259 \$167	45 0	0	\$167 \$167	0	0	0	1	1 0	\$133 \$133	\$270 \$270		\$74 \$58	\$21 \$19
6314020	431273	2660 BRIDGE\ MARIN FREEHOI		0	0	\$167	0	0	0	1	0	\$133	\$270		\$71	\$19
6507121	na	723 BRIDGEWna	\$167	0	0	\$167	0	0	0	1	0	\$133	\$270		\$61	\$24
6513109	na	2 PRINCESS £na	\$1,132	475	0	\$167	0	0	0	1	1	\$133	\$270	\$167	\$76	\$23
6513108	111617	669&667 BRID HANSON GALLE		0	0	\$167	0	0	0	1	0	\$133	\$270		\$71	\$19
6505506	120956	42 CALEDONI BABETTE PINSK		0	0	\$167	0	0	0	1	0	\$133	\$270		\$79	\$20
6504104 6312002	120079 115215	HUMBOLDT S SAUSALITO YAC CAPITAL ST ARQUES	\$2,350 \$3,686	1,075	1,085	\$2,369 \$3,706	1	1	1	1	1 1	\$2,678 \$2,847	\$2,453		\$2,412 \$3,108	\$2,03 \$2,60
6503401	126505	619 HUMBOLE MARGARITAVILL		1,733 1,374	1,744 1,075	\$2,348	1	1	1	1	1	\$2,904	\$2,610 \$2,663			\$2,19
6316205	168754	3020-B BRIDG NAUTILUS OF M		1,643	2,117	\$4,463	1	1	1	1	1	\$2,945	\$2,701			\$3,10
6313002	172409	2500 BRIDGE\ MOLLIE STONES		1,650	1,279	\$2,762	1	1	1	1	1	\$3,559	\$3,270			\$2,63
6308007	169884	GATE 1 RD SCHOONMAKER	\$5,383	2,569	2,455	\$5,150	1	1	1	1	1	\$5,051	\$4,654	\$4,923	\$4,940	\$3,70
6517213	na	558 BRIDGEW na	\$5,751	2,750	2,680	\$5,606	1	1	1	1	1	\$6,188	\$5,707	\$5,639		\$4,42
6314015	428074	1 HARBOR DEEQUITY OFFICE	\$6,581	3,159	2,822	\$5,895	1	1	1	1	1	\$6,758	\$6,236			\$4,81
6303001	700410	298 HARBOR CLIPPER YACHT	\$6,857	3,295	5,347	\$11,020	1	1	1	1	1 1	\$7,771	\$7,175 \$13,090			\$7,42
6316104 6506346	700400 na	3001 BRIDGE\ BAYSIDE MGMT 777 BRIDGEW na	\$13,536 \$16,881	6,585 8,233	5,532 6,293	\$11,396 \$12,941	1	1	1	1	1	\$14,152 \$15,741	\$13,090			\$9,85 \$11,16
6513212	na	19 PRINCESS na	\$167	0	0,200	\$167	0	0	0	1	0	\$133	\$270		\$45	\$18
6513204	na	625 BRIDGEW na	\$167	0		\$167	0	0	0	0	0	\$133	\$270		\$30	\$16
6505223	na	201 CALEDON na	\$167	0		\$167	0	0	0	0	0	\$133	\$270	\$167	\$30	\$16
6505423	na	na na	\$167	0		\$167	0	0	0	0	0	\$133	\$270		\$30	\$16
6408201	404435	300 NAPA ST GALILEE HARBO		0		\$167	0	0	0	0	0	\$133	\$270		\$30	\$16
6314028	na	na na	\$167 \$1,607	0 709	601	\$167 \$1,386	0	0	0	1	0 1	\$133 \$782	\$270 \$696		\$103 \$840	\$2° \$1,0°
6313001 6312001	na na	na na na na	\$1,007	460	570	\$1,323	1	1	1	1	1	\$762 \$866	\$696 \$774	\$790 \$871	\$921	\$1,02
6314026	na	na na	\$167	0	570	\$1,323	1	1	1	1	0	\$1,946	\$1,775		\$1,948	\$1,54
6509317	na	na na	\$167	0		\$167	1	1	1	1	0	\$2,101	\$1,919			\$1,64
6503601	na	na na	\$3,643	1,712	1,460	\$3,130	1	1	1	1	1	\$3,907	\$3,593	\$3,788	\$3,814	\$2,87
6315106	na	na na	\$9,110	4,405	4,283	\$8,860	1	1	1	1	1	\$8,520	\$7,869			\$6,01
6524217	na	na na	\$174	3	4	\$174	0	0	0	1	1	\$133	\$270		\$123	\$27
6527110	na	na na	\$182	7	8	\$182	0	0	0	1	1	\$133	\$270		\$123	\$27
6416201 6513107	na na	na na na na	\$203 \$205	17 18	18 19	\$203 \$205	0	0	0	1 1	1 1	\$133 \$133	\$270 \$270		\$123 \$123	\$28 \$29
6516316	na	na na	\$298	64	65	\$298	0	0	0	1	1	\$133	\$270		\$123	\$35
6513101	na	na na	\$332	81	82	\$332	0	0	0	1	1	\$133	\$270		\$123	\$37
6517101	na	na na	\$399	114	115	\$399	0	0	0	1	1	\$133	\$270	\$167	\$123	\$41
6416204	na	na na	\$570	198	199	\$570	0	0	0	1	1	\$133	\$270		\$123	\$53
6301012	na	na na	\$964	392	393	\$964	0	0	0	1	1	\$133	\$270		\$123	\$79
6301003	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$16
6301016 6302001	na na	na na na na	\$167 \$167	0		\$167 \$167	0	0	0	1	0	\$133 \$133	\$270 \$270		\$123 \$123	\$16 \$16
6303003	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$16
6304003	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$16
6311027	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270	\$167	\$123	\$16
6311028	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$16
6311029	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$16
6311030	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$16
6311031 6313006	na na	na na na na	\$167 \$167	0		\$167 \$167	0	0	0	1	0	\$133 \$133	\$270 \$270		\$123 \$123	\$16 \$16
6314004	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$16
6314005	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$16
6408101	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$16
6408202	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$1
6414105	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$1
6416203	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270 \$270		\$123 \$123	\$1
6416701	na	na na	\$167 \$167	0		\$167 \$167	0	0	0	1	0	\$133 \$133	ψ 2 .0	\$167 \$167		\$1 \$1
6416726 6501502	na na	na na na na	\$167 \$167	0		\$167 \$167	0	0	0	1 1	0	\$133 \$133	\$270 \$270		\$123 \$123	\$1 \$1
6503101	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$1 \$1
6503407	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$1
6503603	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$1
6503805	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$1
6505502	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$1
6506101	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$1
6509116	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$1
6509316	na	na na	\$167 \$167	0		\$167 \$167	0	0	0	1	0	\$133 \$133	\$270		\$123	\$1
6509318 6513103	na	na na	\$167 \$167	0		\$167 \$167	0	0	0	1	0	\$133 \$133	\$270 \$270		\$123 \$123	\$1 \$1
6513103 6513104	na na	na na na na	\$167 \$167	0		\$167 \$167	0	0	0	1	0	\$133 \$133	\$270 \$270		\$123 \$123	\$1 \$1
6513312	na na	na na na na	\$167 \$167	0		\$167 \$167	0	0	0	1	0	\$133 \$133	\$270 \$270		\$123 \$123	\$16
6523849	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$16
6526730	na	na na	\$167	0		\$167	0	0	0	1	0	\$133	\$270		\$123	\$16
				80,103	78,907	\$194,749	108	87	109	203	129	\$178,61			\$178,618	\$178,6

a. This table is created for general information only and there

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Appendix 5 FY 2009-10 Fund 110 Update for Sewer Rate Study

Account No. & Title	Original Amount	Original Quantity, brief description and justification	Updated Amount Quantity, brief description and justification
Salaries & Benefits Salaries 1000-110	\$335,871 4.1 Sup	\$335,871 4.1 FTEs: 1.0 Sewer System Coord, 0.5 DPW Foreman, 0.1 DPW Supervisor, 1.5 MWII, 0.5 CEII, 0.5 City Engr	\$696,000 Increase staffing to 8.5 FTEs by adding 3 FTEs at the MWIII salary range (or higher) and creating a Sewer Maintenance Worker Job Classification to include additional training and certification requirements, and adding 0.5 Director of Public Works, 0.5 FTE, Admin, Aide, and 0.4 Equipment Mechanic — amount is
Auto Allowance 1000-140 Cafeteria Plan 2000-215	\$1,500 50% \$53,427 Hea	\$1,500 50% Auto Allowance for City Engineer \$53,427 Health plan coverage - Kaisee - Kaisee Cross, Dental coverage, Term Life	simply previously projected annual escalated by ratio of 8.5/4.1 \$3,000 50% Auto Allowance for City Engineer and Dir Pub Wks \$111,000 See salaries above
Medicare Tax 2000-221	\$4,870 Em	insurance, and Long ferm Disability insurance, all behefits. \$4,870 Employees hired after April 1986 pay 1.45% of pay with Employer matching at same rate	\$10,000 See salaries above
PEKS Employer Confire, 2000-230 State Unemployment 2000-251 Workers Comp 2000-280	\$39,969 Put \$3,359 Sta \$21,312 Dire	\$39,969 Public Employees Ketirement System (PEKS) for Misc. employees - 100% cost paid by city \$3,359 State Unemployment calculated as 1% of Salaries \$3,359 State Unemployment calculated as 1% of Salaries \$7.3,137 Direct charge to sewer fund for workers compensation based on percent	\$83,000 See salaries above \$7,000 See salaries above \$44,000 See salaries above
Total Salaries & Benefits	of c \$460,308	ol cost	\$954,000
Protessional Services Professional Services 3000-320 Sewer Management Prog. 300-321 Technical Services 3000-340 Total Professional Services	\$252,903 \$15,000 \$51,000 \$318,903		\$100,000 Overspent FY08-09, expect high regulatory compliance costs over next 5 years (annual) \$15,000 \$10,000 Add laboratory analytical costs for increased regulatory compliance (annual) \$125,000
Operations Utilities - Electricity 4000-410 Utilities - Telephone 4000-412 Utilities - Water 4000-413 Utilities - Sewer 4000-414 Utilities - Solid Waste 4000-415	\$4,120 Utili \$500 Con and \$1,150 Wat \$11,000 Sen \$0 Wax	\$4,120 Utilities Electricity \$500 Communications (SCADA) between Pump Stations/SMCSD and dedicated phones and call charges for Sewer System response) \$1,150 Water usage for the City's Sanitary Sewer Pump Stations \$411,000 Sewer-rate paid to the SMCSD for City Buildings- \$0 Waste transportation and disposal costs for wastes Bay Cities cannot handle	\$4,120 \$1,000 Add alarms and status to existing and add Sausalito to recipients (annual utility cost only) \$1,150 Delete per CDM comment 5 and City affirmation \$10,000 Preliminary estimate based on DenBeste services currently in procurement (annual) (note new Object
Cleaning Services 4000-420	\$2,000 Cle.	\$2,000 Cleaning Services	\$10,000 Restoration services for SSO into commercial and residential structures - add estimate for outside services in the event of SSO reaching waters of the State
Repairs & Maint. Buildings 4000-430 Repair Vehicles & Equip 4000-432 Repair Sewer Infrastructure 4000-435 Rental Machinery & Equip. 4000-442 Rental Machinery & Equip. 4000-442 MERA charges 47 du Private Lateral Program Total Operations	\$1,000 Reg \$5,000 Reg \$34,000 Mis \$1,000 Mis \$1,000 Mis \$0 Fun and	\$1,000 Repairs to building space occupied by Sewer Staff \$5,000 Repairs to Sanitary Sewer Vehicles & Equipment \$34,000 Repairs to Sanitary Sewer Pump Stations pipes, pumps, etc \$1,000 Misc. rental of Sanitary Sewer equipment as needed \$1,000 Misc. rental of Sanitary Sewer equipment as needed \$0.00 Misc. rental of Sanitary Sewer equipment as needed	\$1,000 \$5,000 \$1,000 \$1,000 \$4,032 Calculated as 25% of total Public Works charges from FY08-09 budget (p 81) \$20,000 Annual contribution to ongoing program that complies with EPA Order and River Watch settlement \$91,302

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Account No. & Title	Original Amount	Original Quantity, brief description and justification	Updated Amount	Updated Quantity, brief description and justification
Other Services Insurance - Lability 5000-520 Advertising 5000-541 Printing - External Serv. 5000-551 Permits 5000-561 Conferences 5000-581 Training & Workshops 5000-582 Total Other Services	\$20,254 Liat \$1,000 Prir \$1,000 Prir \$2,000 CM \$2,000 CM \$4,750 Ren \$4,750 Ren	\$20,254 Liability Insurance \$1,000 \$1,000 Printing of forms, envelopes and letter head. Printing and copying of map and plans \$8,650 Hazard Waste Generator Permit (State), 50% Marin Map, USA USA Membership, CMOM-CWAE (related) memberships \$2,000 CMOM Program, Hazardous Waste Cross-Connection and safety seminans, meetings, and conferences \$4,750 Renewal of AutoCAD, Arcview, and PDF certifications and accreditations	\$20,254 \$1,000 \$1,000 \$8,650 \$5,000 \$7,000 \$42,000	20,254 \$1,000 \$1,000 \$8,650 \$5,000 \$7,000 Additional training to maintain certification of wastewater collection professionals
Total Supplies Supplies-General 6000-610 Supplies Office 6000-621 Oil and Gasoline 6000-621 Uniforms 6000-622 Books 6000-640 Computer Printer & Sup. 6000-650 Total Supplies	\$15,000 Tool etc. \$2,000 St. 500 Oil s \$2,500 Oil s \$2,500 Unit \$150 Coc \$1	\$15,000 Tools, hardware, sewer rods, augers, jet hoses, nozzles, sanilary safety gloves, etc. \$2,000 \$2,500 Oil and Gas for Vehicles and equipment. \$200 Uniforms for employees. \$150 Code books and manuals Printer cartridges, ribbons, fluids	\$15,000 \$2,000 \$2,500 \$200 \$150 \$150	
Property, Plant, & Equipment Machinery & Equipment 7000-740 Vehicles 7000-750 Computer Equipment 7000-760 Total Property, Plant, & Equipment Transfer Out: Administration Support General Fund 9100-101 Total Expenditures	\$4,350 \$4,350 \$79,000 Sup \$79,000 Pay \$980,835 Tot	\$4,350 \$4,350 \$79,000 Support from Administration, Personnel, Finance, City Council, Payroll, Accounts Payable, Project Accounting, etc. \$980,835 Total of Salaries & Beneffts, Professional Services, Operations, Other Services, Supplies, Property, Plant, & Equipment, and Transfers out.	\$405,000 \$25,000 \$15,000 \$445,000 \$79,000 \$73,757,056	\$405,000 One (1) Honda WT40 4x4-in Gas Powered Trash Pump, One (1) Multiquip 6x6-in MQ600TD80-TLRB Diesel Powered Trash Pump, Two (2) Baldor TS400T Tier 3 diesel powered towable 365KVA generators, a \$30K allowance for flow monitoring equipment. In future years use a \$20K amual allowance for CCTV software and digital conversions. \$25,000 Accelerate accrual for replacement of rodding machine within next 5 years (conceptual estimate)(annual) \$15,000 Additional instrumentation for SCADA at pump stations, permanent flow monitoring and related hardware conceptual estimate only one-time expense) \$79,000 \$79,000 \$79,000
Submary Salaries & Benefits Professional Services Operations Other Services Supplies Property, Plant, & Equipment Transfer Out: Administration Support Grand Total	Original Amount \$460,308 \$318,903 \$60,770 \$37,654 \$19,850 \$4,350 \$79,000 \$980,835		Updated Amount \$954,000 \$125,000 \$127,302 \$42,904 \$149,850 \$45,000 \$745,000 \$7757,056	